

HARRINGTON



HOIST PRODUCTS

CATALOG
"P"

GRAVERS ROAD at the TURNPIKE
PLYMOUTH MEETING, PA.

THE HARRINGTON COMPANY

Plymouth Meeting, Pa.

CATALOG "P"

Products described by Bulletins in this cover are:

<u>COMPLETE UNITS</u>	<u>Bulletin</u>	<u>Date of Issue*</u>
Peerless "PACKET" Hoists	P-5	11/1/54
Peerless Hoists Models, C, D & E	P-11	6/1/54
Screw Hoists	P-27	6/1/54
Differential Hoists	P-31	5/1/55
"HANDY-DIFF" Trolley Hoists	P-31	5/1/55
Peerless Trolley Hoists, "PACKET", B, H & CH	P-35	12/1/55
"CUM ALONG" Lever Pullers	P-39	12/1/55
Extended Hand Wheel C Peerless) Double Hook C Peerless)	P-45	12/1/55
Winches	P-51	4/1/55
"BEARCAT" Electric Hoists	P-53	8/1/54
Trolleys for I Beam, Models J, F, C & D) Trolleys for Flat Rail)	P-65	5/1/55
I Beam Track and Hangers	P-71	9/1/54
Single Beam Traveling Cranes) Jib and Gantry Cranes)	P-87	10/1/54
Safety & Trip Hooks, Shock Springs & Special Wheels	P-91	11/1/54
Chain Data Chain	P-95	11/1/54

REPAIR PARTS

Peerless Models, A, B & C	P-101	9/1/54
Peerless "PACKET"	P-105	4/1/55
Screw & Differential	P-107	6/1/54
Trolley Hoists, Type A & B Peerless	ASK FOR INFORMATION	
"CUM ALONG" Lever Puller	P-111	4/1/55
"BEARCAT" Electric Hoist	P-122	12/1/55
Trolley	P-131	6/1/54

*This cover may contain Bulletins of prior or later issue
when no vital changes are involved.

THE WASHINGTON COMPANY

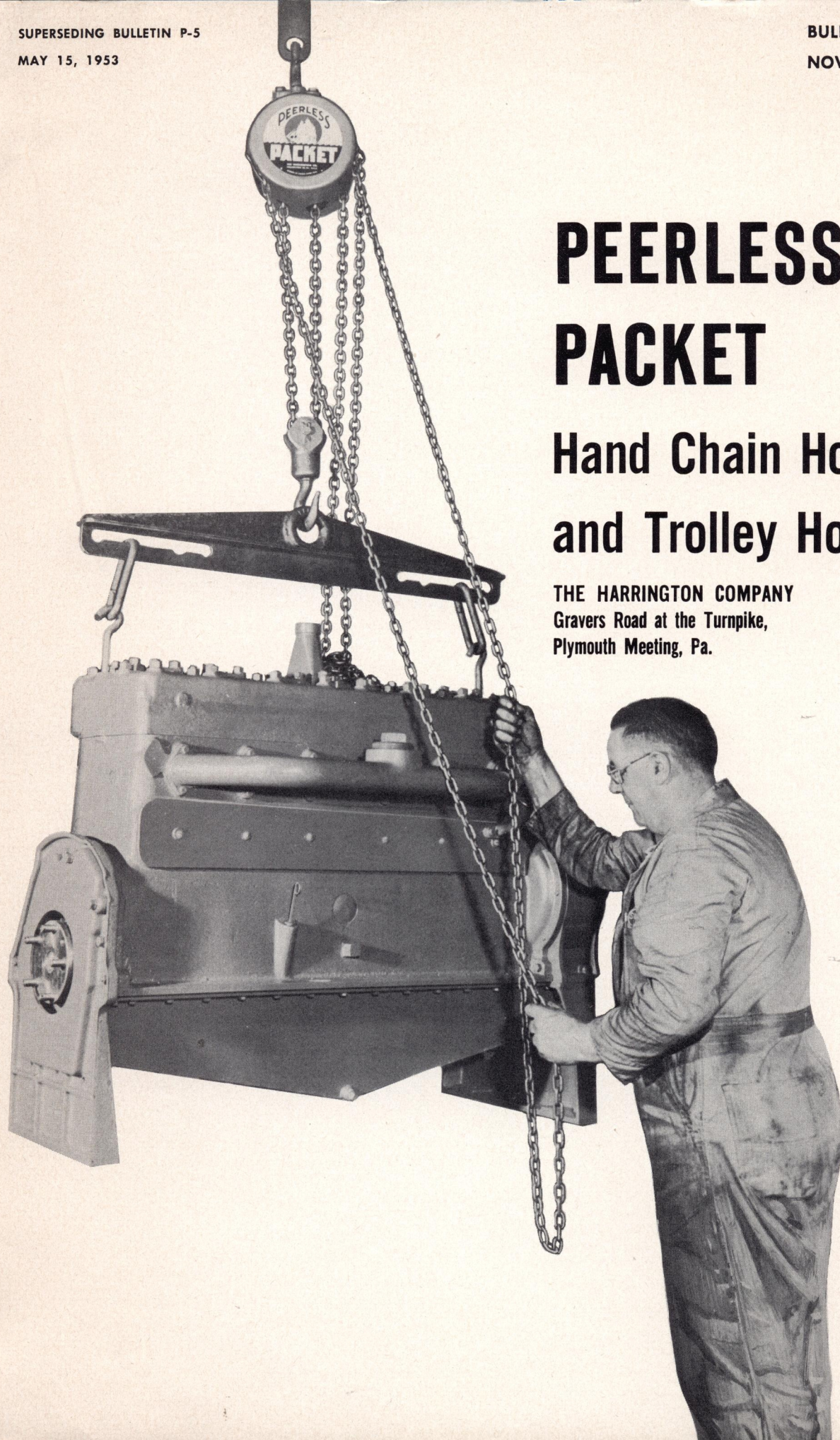
Plymouth Products, Inc.

Product "P"

Products described by Bulletin in this cover are:

COMPLETE UNIT		Bulletin		Date of Issue	
Featureless "PACKET" Holes	P-1	1-1	1-1	1-1	1-1
Featureless Holes, C, D & E	P-2	1-1	1-1	1-1	1-1
Featureless Holes	P-3	1-1	1-1	1-1	1-1
Differential Holes	P-4	1-1	1-1	1-1	1-1
THANGY-DUPY Trolley Holes	P-5	1-1	1-1	1-1	1-1
Featureless Trolley Holes	P-6	1-1	1-1	1-1	1-1
"PACKET", B, H & CH	P-7	1-1	1-1	1-1	1-1
"GUM ALONG" Lever Holes	P-8	1-1	1-1	1-1	1-1
Extended Hand Wheel (C Featureless)	P-9	1-1	1-1	1-1	1-1
Double Hook (C Featureless)	P-10	1-1	1-1	1-1	1-1
Holes	P-11	1-1	1-1	1-1	1-1
"SPACER" Electric Holes	P-12	1-1	1-1	1-1	1-1
Trolley for 1 Beam, Models J, E, C & D	P-13	1-1	1-1	1-1	1-1
Trolley for 1st Rail	P-14	1-1	1-1	1-1	1-1
1 Beam Track and Hangers	P-15	1-1	1-1	1-1	1-1
Single Beam Traveling Crane	P-16	1-1	1-1	1-1	1-1
Two and Heavy Crane	P-17	1-1	1-1	1-1	1-1
Selection Trip Hook, Shock Springs	P-18	1-1	1-1	1-1	1-1
2 Special Wheels	P-19	1-1	1-1	1-1	1-1
Control Unit	P-20	1-1	1-1	1-1	1-1
Control Unit	P-21	1-1	1-1	1-1	1-1
Featureless Holes, A, B & C	P-22	1-1	1-1	1-1	1-1
Featureless "PACKET"	P-23	1-1	1-1	1-1	1-1
Beam & Differential	P-24	1-1	1-1	1-1	1-1
Trolley Holes, Type A & B Featureless	P-25	1-1	1-1	1-1	1-1
Trolley Holes, Lever Puller	P-26	1-1	1-1	1-1	1-1
"GUM ALONG" Lever Puller	P-27	1-1	1-1	1-1	1-1
"SPACER" Electric Holes	P-28	1-1	1-1	1-1	1-1
Trolley	P-29	1-1	1-1	1-1	1-1

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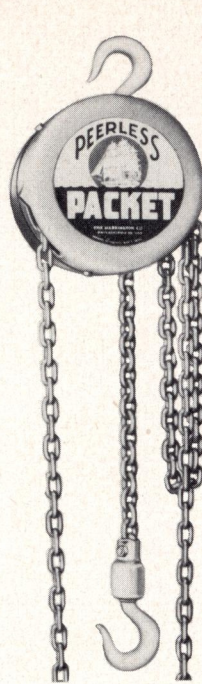
PEERLESS PACKET

Hand Chain Hoists and Trolley Hoists

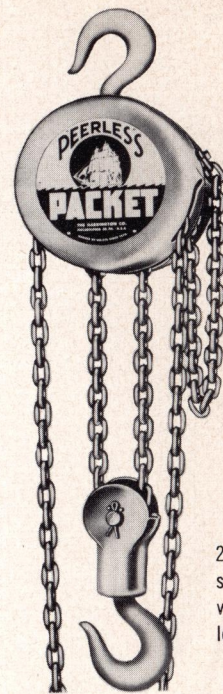
THE HARRINGTON COMPANY
Gravers Road at the Turnpike,
Plymouth Meeting, Pa.

PACKET HAND CHAIN HOISTS

Steel or Aluminum Construction



$\frac{1}{2}$ and 1-ton
hook
suspension
with single
load chain.



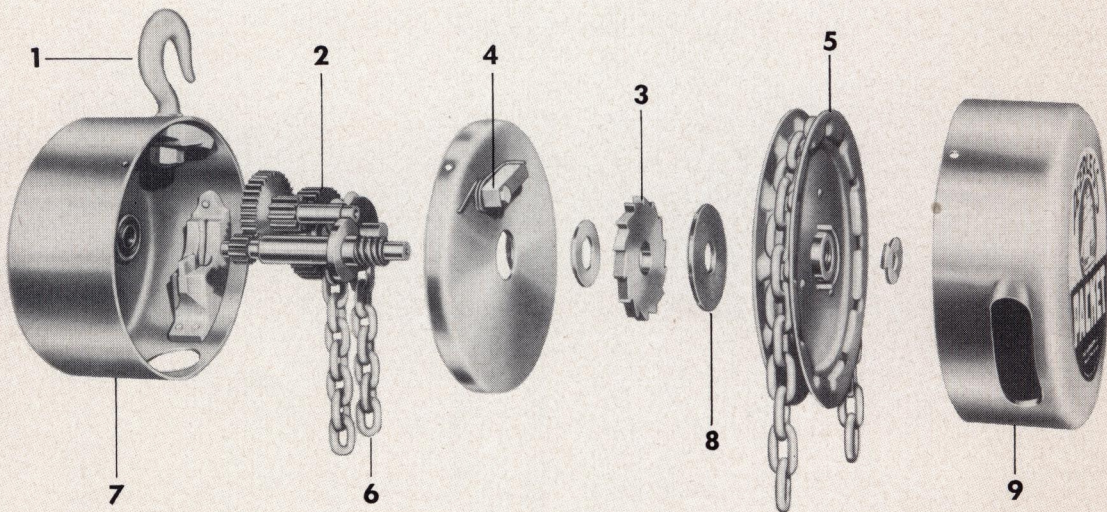
2-ton hook
suspension
with double
load chain.

All-Steel Construction—Drop forged, heat treated steel hooks; pressed steel housings; precision cut, heat treated alloy steel gears; heavy gauge pressed steel hand wheel; electrically welded, oval link, heat treated, steel load chain. Enclosed design withstands rough handling, keeps out dirt.

Highly Efficient Operation—Rotating parts are mounted on prelubricated, shielded ball bearings which have long life, require no maintenance. These bearings, plus simplified gearing and improved friction mechanism, assure extremely smooth operation.

Aluminum Construction—In its Aluminum Packet, the Harrington Company offers a hoist of much lighter weight without sacrifice of any other quality. The saving in weight (20 lb. in the $\frac{1}{2}$ -ton model, 21 lb. in the 1-ton model and 20 lb. in the 2-ton model) is made possible through the use of high tensile aluminum alloy parts. The Aluminum Packet has the portability that many users find advantageous.

Yet aside from weight, the Aluminum Packet is no different from its all-steel counterpart. Its operating efficiency is just as high and it lifts capacity loads with the same ease and safety.



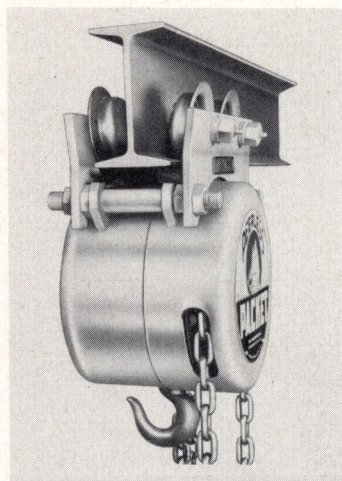
- 1 Steel hooks are drop forged and heat treated.
- 2 Heat treated alloy steel gears have precision cut teeth.
- 3 Steel ratchet disc has accurately cut teeth, oil impregnated bronze bushing.

- 4 Steel ratchet pawl is unbreakable.
- 5 Hand wheel is light yet strong. Hand chain, with large links for good grip, is easy to pull.
- 6 Load chain has great strength and flexibility.
- 7 Housings are of rugged pressed steel or high tensile aluminum alloy.

- 8 Friction washer is woven asbestos, wire reinforced.
- 9 Hand wheel of steel or aluminum alloy is completely enclosed. Chain guides are integral part of cover—chain cannot disengage from pockets.



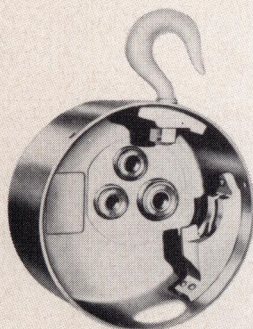
Low headroom is a feature of the Peerless Packet Trolley Hoist. The hoist is close to the beam, and the lifting hook can come closer to the beam than with regular hook types.



PACKET ALL-STEEL TROLLEY HOISTS

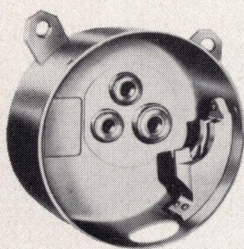
for close head room—
adjustable to several
sizes of I-beams

Packet Trolley Hoists are a combination of a hoist and an adjustable trolley which fits a wide range of I-beam sizes without dismantling. Trolley wheels—pressed from high carbon steel and hardened—have large diameter, double row, pressure lubricated ball bearings. Trolley frames are designed to permit wheel treads to bear uniformly on the tapered flanges of standard beams.

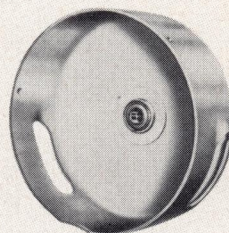


HOOK SUSPENSION

Prelubricated ball bearings have long life, require no maintenance. Load chain guide and stripper prevents chain from twisting.

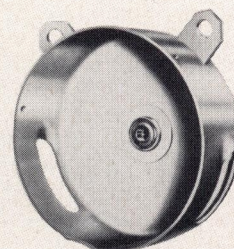


TROLLEY HOIST



HOOK SUSPENSION

No overhang. Ball bearing is at end of hand wheel shaft. Intermediate gear shaft and load wheel shaft are also mounted in ball bearings.

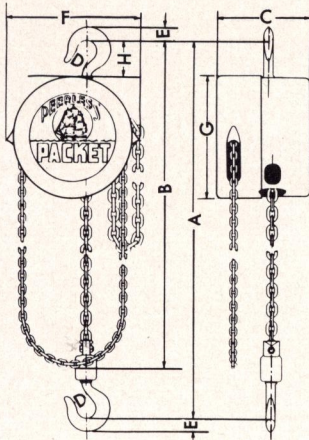


TROLLEY HOIST

HARRINGTON Peerless Hoists

The Harrington Company, Gravers Road at the Turnpike, Plymouth Meeting, Pa. • Hoist Makers Since 1876

ALL-STEEL PACKET WITH HOOK SUSPENSION



Dimensions of hook suspension hoists are the same for all-steel and aluminum construction.

Capacity in Net Tons	Price		Load Chain Only per Foot	Hand Chain Only per Foot	Strands of Chain	
	Standard Lift Hoist	Extra Lift per Foot			Load	Hand
1/2	\$ 80.00	\$2.23	\$1.03	\$.60	1	2
1	86.00	2.40	1.20	.60	1	2
2	131.00	3.60	1.20	.60	2	2

Capacity in Net Tons	Regular Lift in Feet	Weight in Pounds			Beam to Hook in use with Trolley		
		Net	Gross	Extra Lift per Foot	J	F	D
1/2	8	50	54	2.0	18"	18"	19 1/4"
1	8	53	57	2.1	19 3/4"	19 1/4"	19 3/4"
2	9	73	77	3.0	...	...	29 3/4"

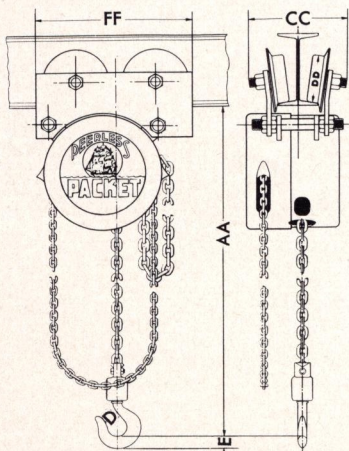
Capacity in Net Tons	A Min.	B	C	D	E	F	G	H
1/2	13 3/4"	7'-9"	7 1/2"	1 1/8"	7/8"	10 3/4"	9 3/8"	2 1/2"
1	14 1/4"	7'-9"	7 1/2"	1 1/4"	1 1/16"	10 3/4"	9 3/8"	2 3/4"
2	22 3/4"	9'-8"	7 1/2"	1 1/2"	1 3/8"	10 3/4"	9 3/8"	3 3/8"

Pull in pounds on hand chain to lift full load. 1/2 ton—42 lb.; 1 ton—56 lb.; 2 ton—60 lb.

ALUMINUM PACKET WITH HOOK SUSPENSION

Capacity in Net Tons	Price		Load Chain Only per Foot	Hand Chain Only per Foot	Weight in Pounds		
	Standard Lift Hoist	Extra Lift per Foot			Net	Gross	Extra Lift per Foot
1/2	\$ 95.00	\$2.77	\$1.03	\$.87	29 3/4	33	1.2
1	104.00	2.94	1.20	.87	32	36	1.3
2	152.00	4.14	1.20	.87	53	57	2.3

ALL-STEEL PACKET TROLLEY HOISTS

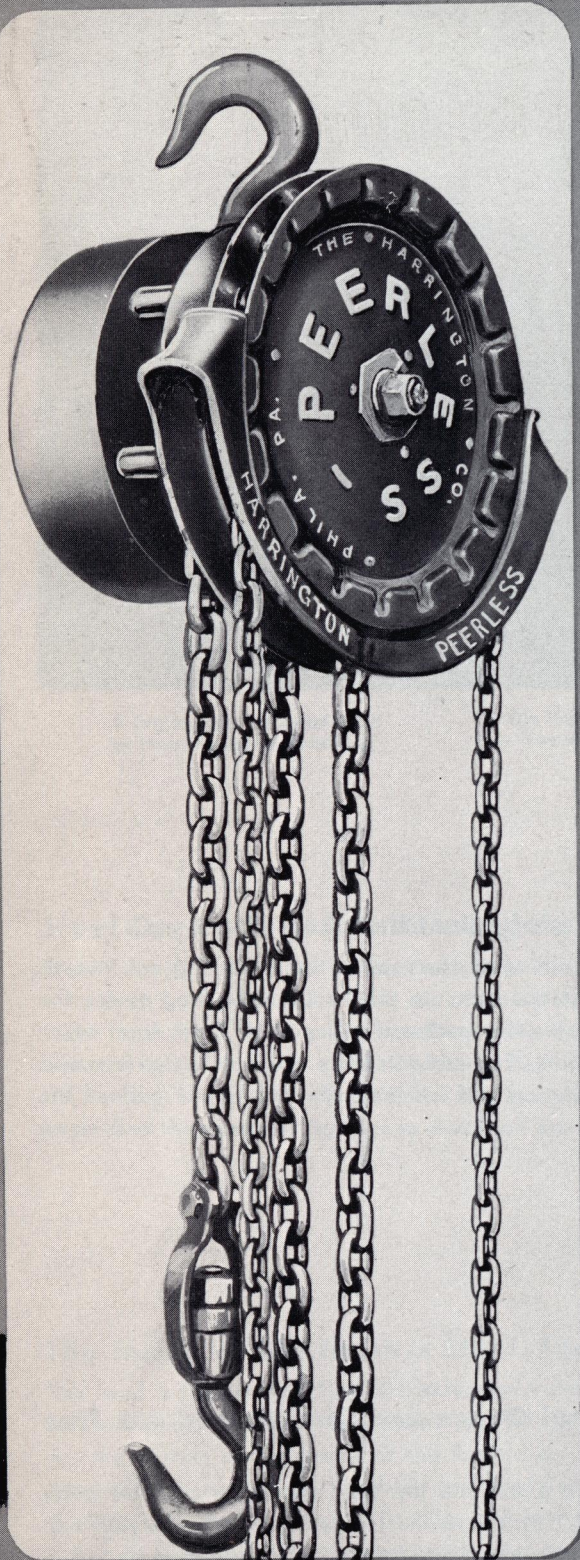


Capacity in Net Tons	Regular Lift in Feet	Price		Range of I Beam Sizes	Beam to Hook AA Min.	Length FF
		Regular Lift in Feet	Extra Lift per Foot			
1/2	8	\$135.00	\$2.23	5" to 10"	12"	11 1/2"
1	8	146.00	2.40	6" to 10"	12 3/8"	12 1/2"
2	9	206.00	3.60	8" to 12"	20"	13 3/4"

Capacity in Net Tons	Width CC		Wheel Tread DD	Min. Radius	Weight in pounds	
	Min.	Max.			Net	Gross
1/2	8 3/16"	9 7/8"	3 1/8"	20"	69	77
1	8 7/8"	10 3/16"	4"	24"	78	86
2	10"	11"	4 7/8"	36"	109	118

Trolley hoists for flat flange beams are available at no extra cost when flange width is within range of adjustment for regular trolley hoist.

Trolley hoists for beams wider or narrower than listed can be made to order at \$15.00 additional.
All prices subject to change without notice.



HARRINGTON
Model C
PEERLESS
HOISTS

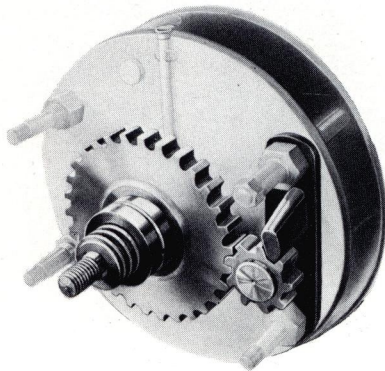
THE **HARRINGTON** COMPANY
GRAVERS ROAD AT THE TURNPIKE
PLYMOUTH MEETING, PA.



1/4-Ton to 2-Ton, Load on
one strand of chain

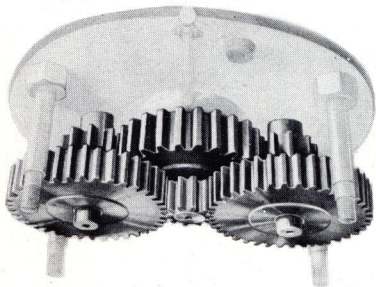
3-Ton with single load
chain

3-Ton to 6-Ton with
double load chain



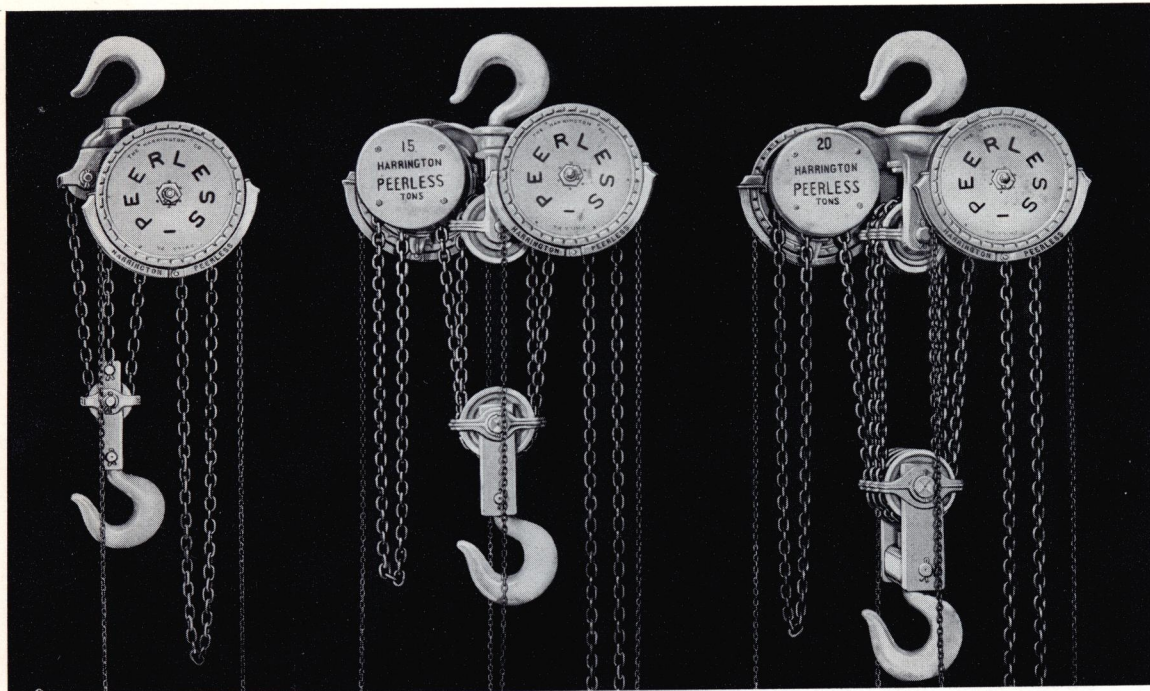
The Silent Steel Lock Safely Sustains Any Load . . .

Permits accurate placing and holding of the load without slipping . . . insures the complete safety of the hoist operator. In this exclusive locking device the solid steel ratchet pinion first locks the ratchet disc due to its tooth form which will only revolve in one direction. For added safety, the ratchet pinion also engages the rigidly mounted friction lock. It instantly locks when pull on the hand chain ceases. Since there are no pawls or springs, replacement and repair are minimized.



Heat-Treated Alloy Steel Gears are Guaranteed for Five Years

A steel pinion, two intermediate gears and the main gears are cut from alloy steel bar stock or forgings as accurately as the transmission gears in your car. Gears are arranged so that tooth pressures are entirely equalized, reducing wear and adding materially to the ease of operation of "Peerless" Model C Hoists.



8-Ton and 10-Ton, Load
on three strands of chain

Double Lift 15-Ton, Load on
four strands of $\frac{5}{8}$ " chain

Double Lift 20-Ton, Load on
six strands of $\frac{5}{8}$ " chain

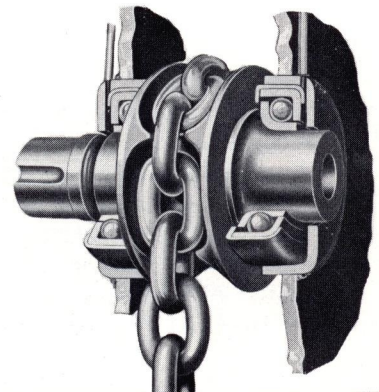
Steel Covers Eliminate Breakage . . .

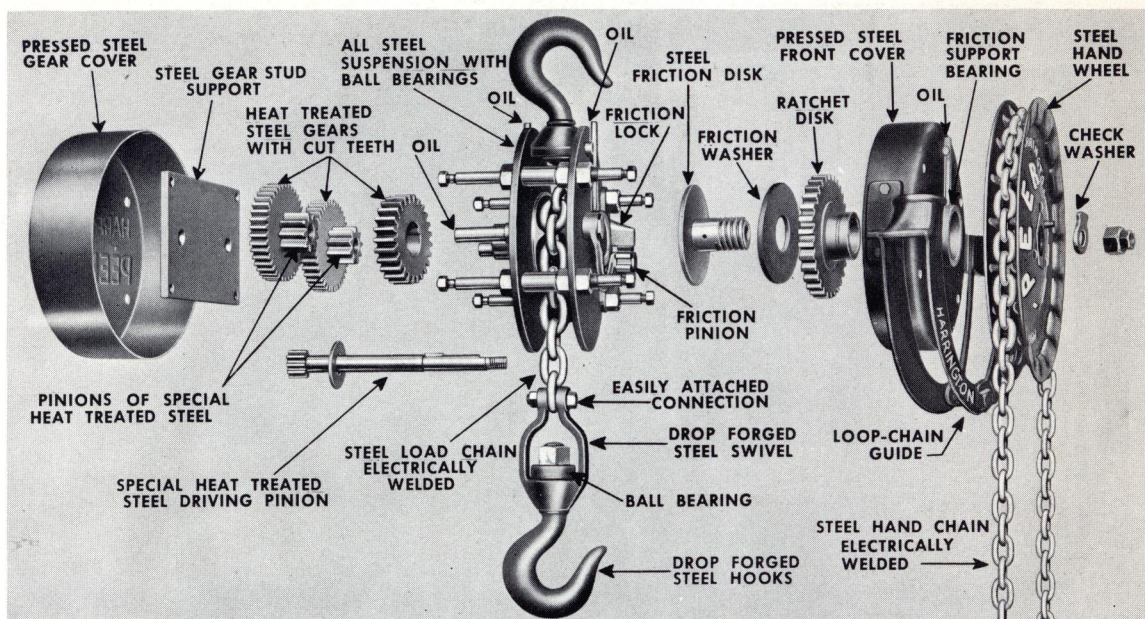
Protect the internal parts of the hoist from damage and dirt. Both front and back covers are of one-piece pressed steel to prevent damage in handling. The hand chain sheaves are also made of thick pressed steel. Dropping a "Peerless" Model C will not break the hand wheel, the covers, or the frames.



The Inside of the Hoist is Steel, Too . . .

The load is transmitted from the extended hubs of the load wheel to the rolled steel frames by means of ball bearings. Wheel pockets are accurately designed for the correct engagement of the load chain, to prevent slip and wear. The load chain is made from the finest grade of ductile high-carbon steel. Each link is electrically butt-welded at its side joint and then heat treated. Great care is taken to make all chain to the exact pitch length to prevent climb or jump in operation. This oval link chain is completely free to flex on any plane without creating undue stresses.





MODEL C PARTLY DISSECTED SHOWING DIRECT STEEL SUSPENSION AND SIMPLICITY OF CONSTRUCTION

"Peerless" Model C Hoists are Built for Hard Usage . . .

Precision-engineered, by specialists in the design and manufacture of hoists,—

- to withstand neglect and rough handling;
- to give long, trouble-free service;
- to require minimum maintenance and repair;
- to provide maximum safety for your employees.

Here are reasons why you get these advantages when you specify "Peerless":

- All gearing is heat treated alloy steel with machine cut teeth;
- All suspension parts are steel;
- The load is directly supported on ball bearings;
- Frames are rolled steel;
- Load Chains are heat treated high carbon steel;

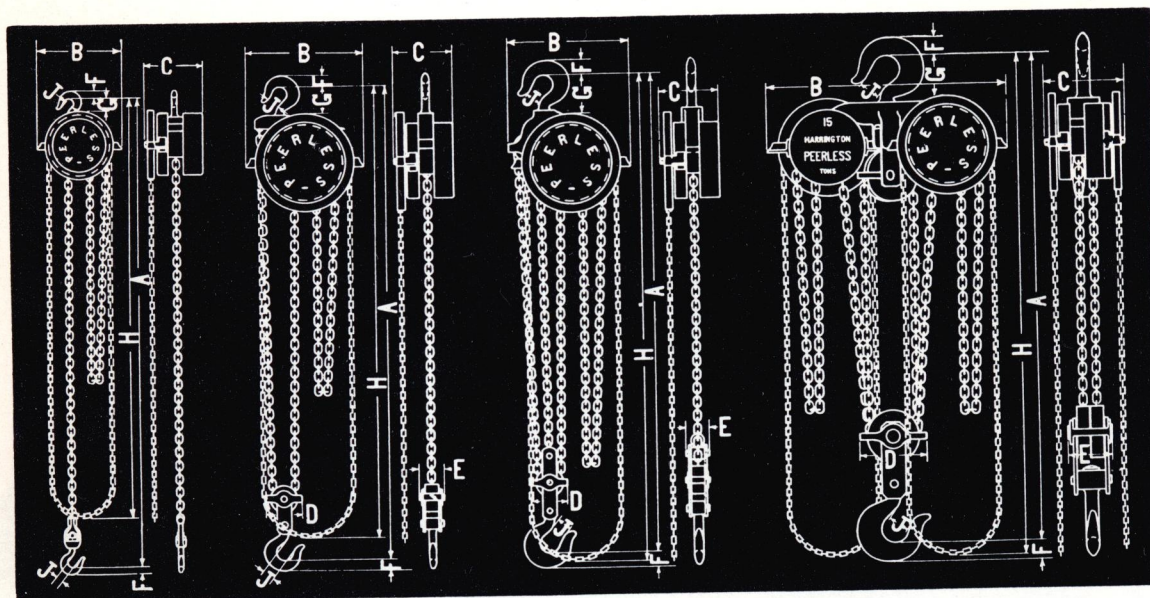
- Hooks and swivels are solid drop-forged steel;
- Hand wheels are die-pressed steel;
- Hand chains are electrically welded steel;
- Covers are die-pressed steel;
- Gear train bearings have replaceable bronze bushings.

From hook-to-hook, Harrington engineers have selected the type of material to be used for each hoist part on the basis of the duty of that part in the finished hoist. It is this careful consideration of every detail that assures complete satisfaction in service . . . that provides a lifetime of service—at no premium cost. This design has been proven by over twenty-five years of service.

Lubrication

The tight covers over all working parts of "Peerless" Hoists reduce the lubrication to a minimum and exclude dirt and foreign matter from the mechanism. Only occasional oiling of the internal mechanism and greasing of the load chain is necessary to maintain the operating efficiency of "Peerless" Hoists. All "Peerless" Model C Hoists have hinged top covers on the three vertical oil tubes that lead

to the main bearings and friction mechanism. Though "Peerless" Hoists are finished with a weather- and acid-resisting paint which eliminates a great deal of corrosion, certain conditions of use in chemical plants or where extreme dampness exists, may call for greater protection. "Peerless" Hoists can be furnished with rust-proofed exterior and Sherardized chains.



Capacity in Gross Tons	Feet of chain handled to lift load one foot	Pull on hand chain to lift full load, in pounds#	Number of strands of load chain	A		B	C	J	F	H
				Min.	Max. Reg. Lift					
1/4	14.0	45	1	13 1/2"	9' 1 1/2"	12"	9 1/2"	1 1/8"	7/8"	7' 8"
1/2	20.3	61	1	13 1/2"	9' 1 1/2"	12"	9 1/4"	1 1/8"	7/8"	7' 8"
1	31.5	78	1	17"	9' 5"	15 1/2"	10"	1 3/8"	1 3/8"	8' 0"
1 1/2	34.5	108	1	19"	9' 7"	17"	11 3/4"	1 1/2"	1 3/8"	8' 2"
2	40.5	123	1	21"	10' 9"	18 1/4"	13"	1 3/4"	1 1/2"	9' 4 1/2"
3S	59.0	127	1	24 1/2"	12' 0 1/2"	25"	13 1/2"	1 7/8"	1 3/4"	10' 8"
3D	69.0	110	2	27 1/4"	12' 3 1/4"	17"	11 3/4"	1 7/8"	1 3/4"	10' 11"
4	81.0	128	2	34 1/4"	12' 10 1/4"	18 1/2"	13"	2 1/4"	2"	11' 6"
5	118.0	112	2	38 1/2"	15' 2 1/2"	25"	13 1/2"	2 1/2"	2 1/4"	13' 11"
6	118.0	134	2	40 1/2"	15' 4 1/2"	25"	13 1/2"	3"	2 1/2"	14' 1"
8	177.0	125	3	46"	15' 10"	27"	13 1/2"	3 1/4"	3"	14' 7"
10	154.5	181	3	49 1/4"	16' 1 1/4"	28"	13 1/2"	4"	3 3/8"	14' 10 1/2"
15	103.0†	208†	4	59"	16' 11"	50"	17 1/4"	4 1/2"	4 1/2"	15' 9 1/2"
20	154.5†	186†	6	61 1/2"	17' 1 1/2"	50"	20 1/4"	4 1/2"	4 1/2"	16' 0"

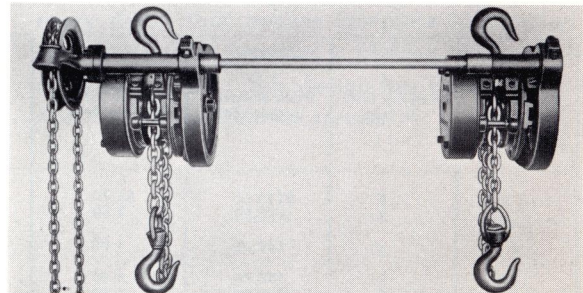
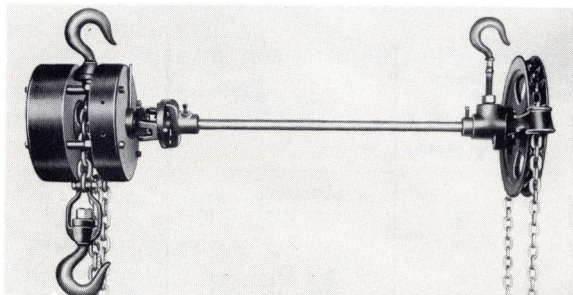
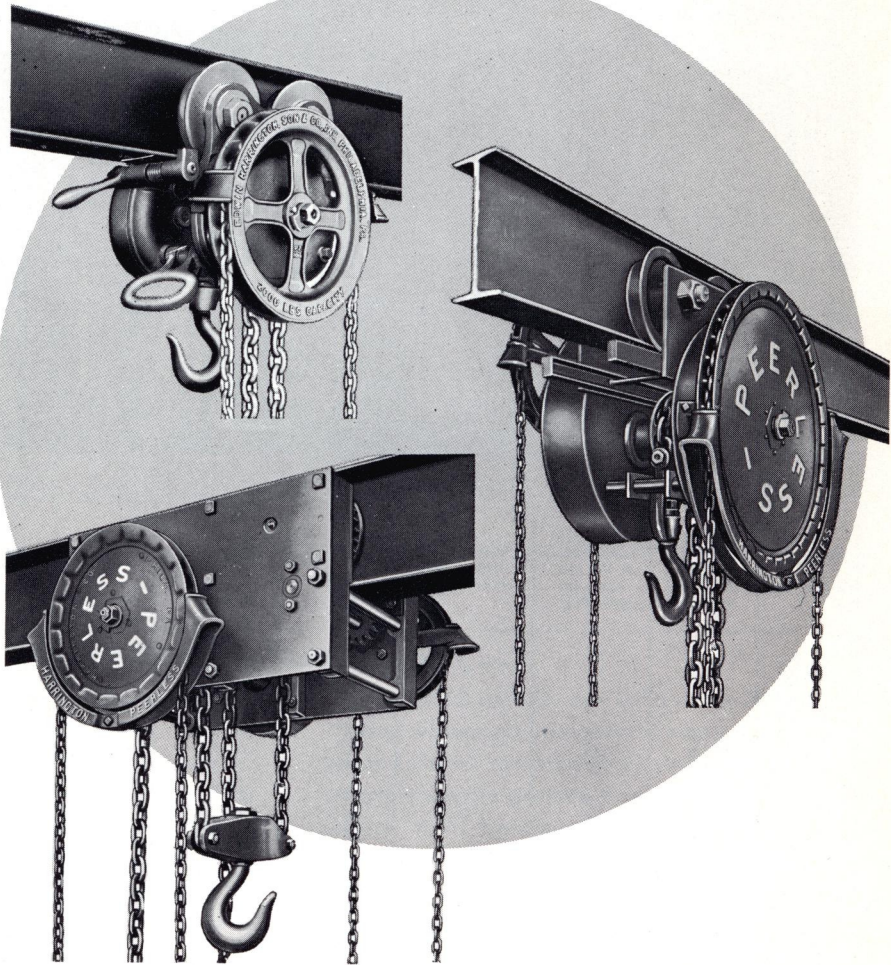
† On each of two hand chains.

For net ton loads.

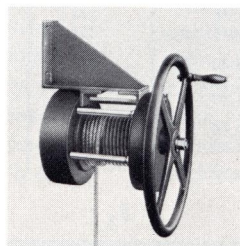
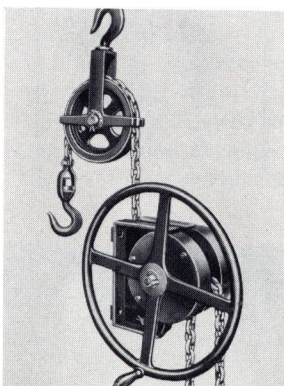
Capacity in Gross Tons	Regular Lift, in feet	Price of Hoist, regular lift	Price of Extra Lift, per foot	Weight of Hoist (regular lift) in pounds		Size of Box, in inches	Code Word for regular lift hoist
				Net	Gross (Boxed)		
1/4	8	\$115.00	\$3.10	52	56	13 x 11 1/2 x 10 1/2	RIALLUS
1/2	8	115.00	3.30	53	57	13 x 11 1/2 x 10 1/2	RIALLYLE
1	8	148.00	3.80	83	87	16 x 15 x 11 1/2	RIALOGADOS
1 1/2	8	198.00	4.00	115	132	18 x 16 1/2 x 13	RIALOGAMMO
2	9	230.00	4.20	162	183	19 1/2 x 18 x 15	RIALOGARON
3S	10	300.00	5.20	242	288	27 1/2 x 24 x 16	RIALOGASSI
3D	10	300.00	6.00	170	210	25 1/2 x 20 1/2 x 16 1/2	RIALTHEA
4	10	360.00	6.40	244	275	25 1/2 x 21 1/2 x 15 1/2	RIALOGATO
5	12	460.00	8.40	355	416	33 1/2 x 27 x 17	RIALOGAVA
6	12	545.00	8.40	357	418	33 1/2 x 27 x 17	RIALOGHI
8	12	660.00	11.60	436	563	36 x 29 1/2 x 17	RIALOGICO
10	12	790.00	14.00	510	637	36 x 29 1/2 x 17	RIALOGISMO
15	12	1380.00	20.00	960	1300	53 x 45 x 21	RIALOGISTA
20	12	1800.00	28.00	1225	1600	53 x 45 x 23	RIALOGORUM



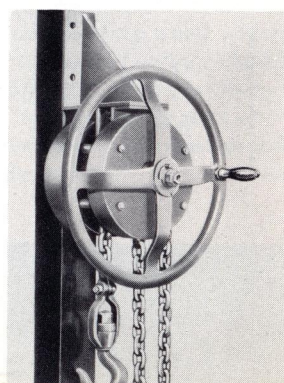
**TROLLEY HOISTS
FOR CLOSE HEAD ROOM
BULLETIN P-35**



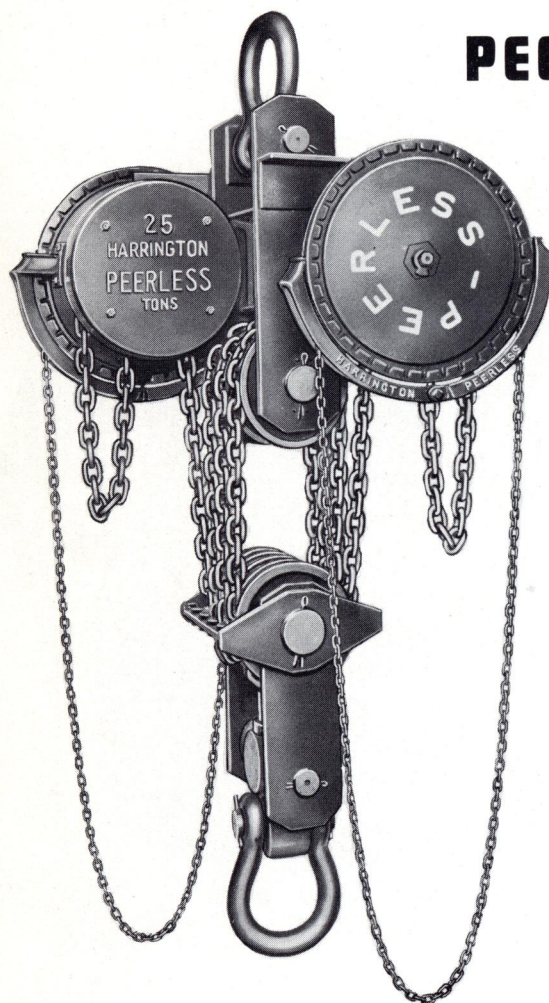
EXTENDED HAND WHEEL OR DOUBLE HOOK BULLETIN P-45



**WINCHES IN SEVERAL
STYLES BULLETIN P-51**



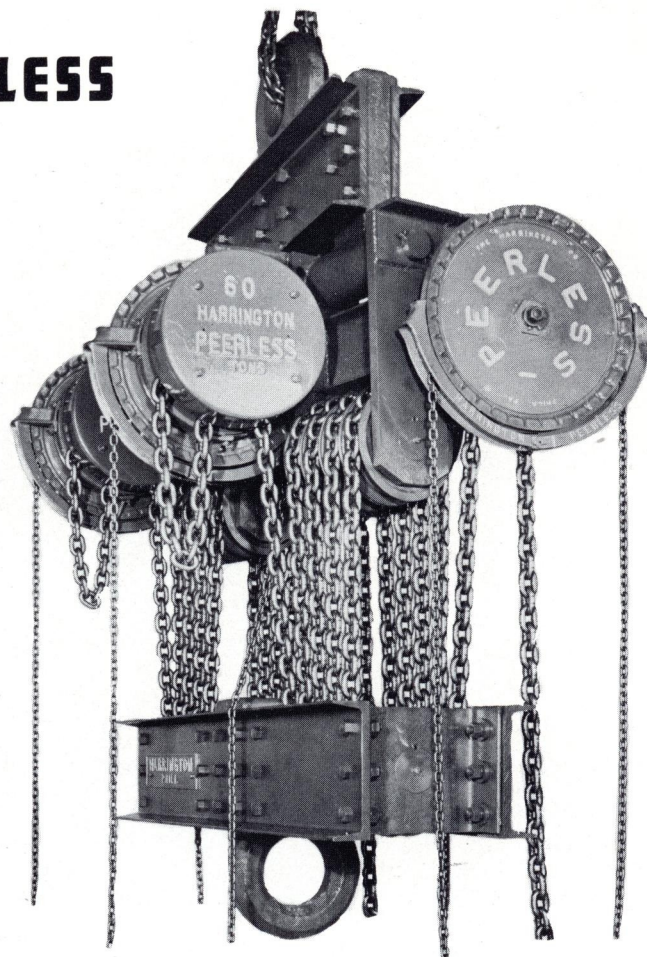
PEERLESS



MODEL D

for easy, safe lifting of loads up to 30 long tons

Shackle suspension takes up less head room and makes suspension easier. Yokes and frames are of heavy rolled steel. Bottom and top shackles are easily detached by removal of cross pin. Bottom shackle is attached to a vertical stem equipped with a roller thrust bearing for easy rotation of the load. Regular lift of all sizes is 12'.



MODEL E

Made only in large capacities and for service where it is advantageous to have four separate hand chains to provide facilities for more men in the lifting operation. These units combine two Model D Hoists with top and bottom yoke built of structural steel sections. Variations are possible in the method of supporting the hoist or in the means of attaching the load to conform to customers specific needs. Regular lift of all sizes is 12'.

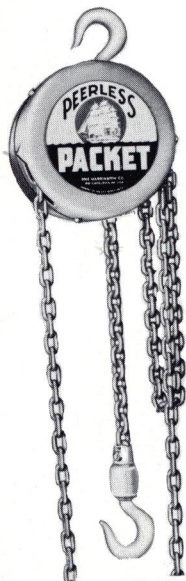
Write for full details.

Capacity in Gross Tons (2240 lbs.)	Price of Hoist, Regular Lift	Price of Extra Lift, per foot	Min. Dist. between inside of Shackles	Wt. of Hoist (reg. lift) in lbs. Net
15	\$1380.00	\$20.00	56"	900
20	1800.00	28.00	58"	1150
25	2000.00	36.00	69"	2050
30	3500.00	44.00	71"	2350

Capacity in Gross Tons (2240 lbs.)	Price of Hoist, Regular Lift	Price of Extra Lift, per foot	Minimum Distance between supporting holes	No. of Strands of Load Chain
40	\$5000.00	\$56.00	5'-7"	12
50	6000.00	72.00	5'-7"	16
60	7000.00	88.00	6'-1"	20
80	Discontinued			

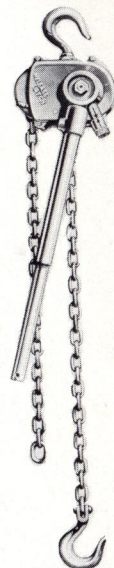
Other

HARRINGTON HOIST PRODUCTS



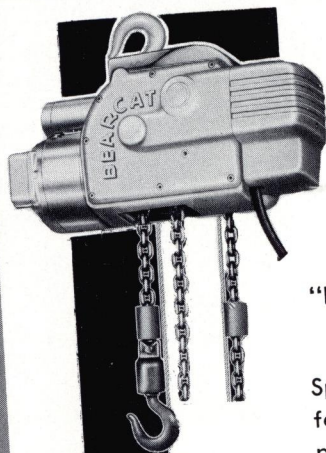
PEERLESS "PACKET" CHAIN HOISTS

All steel or aluminum. Compact, light in weight, highly efficient, low priced. Available in $\frac{1}{2}$, 1 and 2 ton capacity. Described in Bulletin P-5.



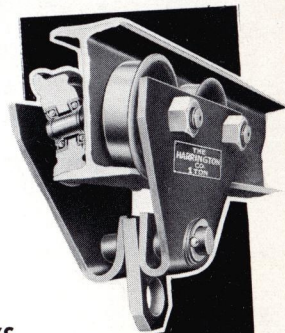
CUMALONG LEVER PULLERS

—in two sizes, $\frac{3}{4}$ and $1\frac{1}{2}$ ton capacity. Write for Bulletin P-39.



"BEARCAT" ELECTRIC HOISTS

Speeds from 12 to 50 feet per minute. Capacities from 170 to 2000 pounds. Write for Bulletin P-53.



I-BEAM TROLLEYS

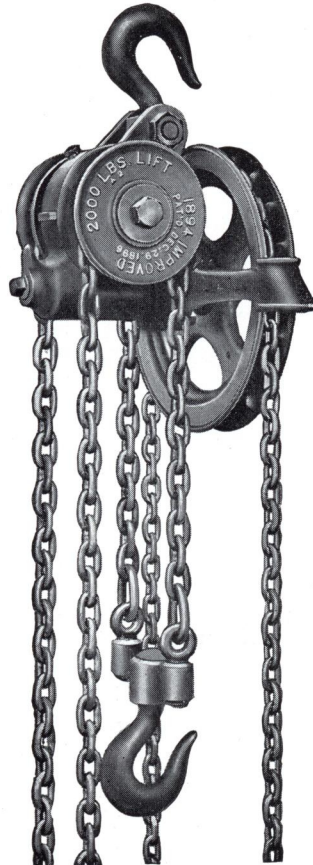
Model D illustrated. This and other Harrington Trolleys are described in Bulletin P-65.

MAKERS OF HOISTS
SINCE 1876

THE
HARRINGTON
COMPANY

GRAVERS ROAD AT THE TURNPIKE
PLYMOUTH MEETING, PA.

SCREW HOISTS



DOUBLE LOAD CHAIN, STEEL SUSPENSION, ENCLOSED GEARING CONSTANTLY LUBRICATED, BRONZE GEAR AND STEEL WORM GEARING WILL NOT OVERHAUL, HORIZONTALLY PARTED GEAR CASE.

Capacity, in Gross Tons	Regular Lift, in feet	Price of Hoist, regular lift	Price of Extra Lift, per foot	Weight of Hoist (reg- ular lift), in pounds		Size of Box, in inches	Code Word for regular lift hoist
				Net	Gross (Boxed)		
1/4	8	\$88.00	\$5.00	44	52	13 x 11 1/4 x 10 1/2	RIAMABETE
1/2	8	97.00	5.00	69	83	19 x 14 x 11	RIAMAFUTRO
1	8	113.00	5.40	79	93	19 x 14 x 11	RIAMAHENT
1 1/2	8	157.00	5.60	110	135	22 x 17 x 14	RIAMANNIS
2	9	185.00	5.80	165	198	25 x 20 x 17	RIAMANTINO
3	10	243.00	6.00	260	362	35 x 28 x 19	RIAMASEME
4	10			340	458	39 x 33 x 19	RIAMELITI
5	12			503	629	34 x 32 x 21	RIAMELITION
6	12			573	699	34 x 32 x 21	RIAMIRTON
8	12	Apply for Prices	Apply for Prices	772	897	34 x 32 x 23	RIAMISYOS
10	12			801	933	34 x 32 x 23	RIAMORON

SCREW HOISTS

The Harrington Screw Hoist has a reputation for superiority gained through years of satisfactory service. Although not as speedy or efficient as the Peerless, it operates with an easy pulling effort and holds the load securely at any point when operation is stopped.

This hoist has but few parts, all properly proportioned to give the very best service under the hard conditions of use, either outdoors or under cover, to which it is liable to be subjected. Its durability makes it particularly useful to contractors and riggers or those who want a good hoist for possible occasional service where the higher efficiency of the Peerless spur geared hoist is not required.

The load is carried on two strands of the highest grade electrically butt welded steel chain which are fastened to clevises in the bottom swivel in such a manner that they can turn to relieve any twist in the chain. The two wheels over which these chains pass have deep pockets, strong teeth and thick flanges, are driven by square holes fitting over squared hubs of the worm gear and are held in place by a bolt and washers passing clear thru the worm gear hub.

The bronze rim of the worm gear is securely riveted to and machined as one piece with the hub, all teeth being carefully and accurately hobbled. It meshes with an accurately machine cut high carbon steel worm, both parts being carried in a casing without a joint below the worm gear center, so that the worm always runs in a bath of grease.

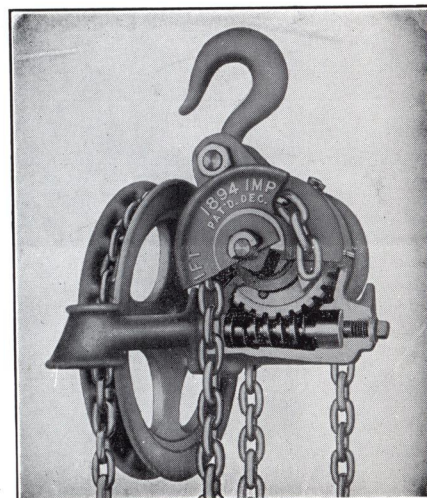
Thrust of the worm due to the load is always against the back end of the case where a bronze washer and screw bear against the center area of the large hardened worm end. The pressure angles of the gearing together with the friction of the bronze thrust washer prevent overhauling of the worm and acceleration in descent when operation for lowering is stopped. If extra braking is desired the thrust screw can be backed out allowing the larger area of the worm end to bear directly against the case.

Two steel side plates make a connection between the swivel of the top hook and the bearings thus relieving the cast case of all strains of suspension. Both hooks are drop forged and securely fastened into their swivels with provision for free turning.

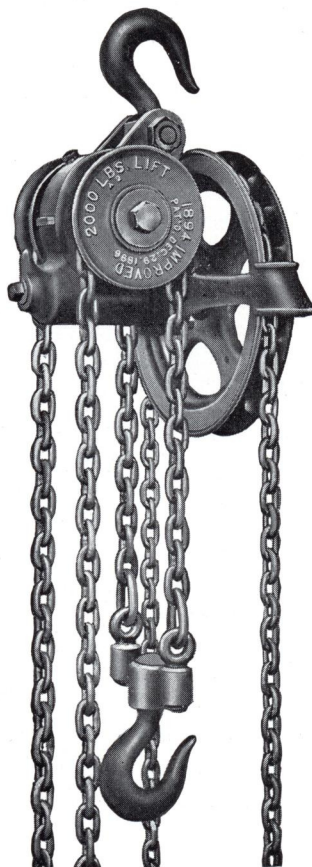
A flaring hand chain guide is so placed that the operator can stand clear of the load without wasting labor by dragging the chain in the guard.

This load chain can easily be removed from the pocket sheaves to make the unit lighter when hanging it up. In replacing, care should be taken that the loop behind the wheels is not twisted and that the hook swivel hangs level. The wheels can be reversed when one side of the teeth become worn after long use and the chain can be reapplied in a quarter turn position to equalize any wear between links.

Capacity, in Gross Tons	Feet of chain handled to lift load one foot	Pull on hand chain to lift full load in pounds	Number of strands of load chain	Distance between Hooks	
				Shortest, in inches	Reach (Reg. Lift)
$\frac{1}{4}$	64.0	20	2	14"	9' 2"
$\frac{1}{2}$	60.5	49	2	15 $\frac{1}{2}$ "	9' 3 $\frac{1}{2}$ "
1	76.0	71	2	17 $\frac{3}{4}$ "	9' 5 $\frac{3}{4}$ "
$1\frac{1}{2}$	88.5	99	2	19 $\frac{3}{4}$ "	9' 7 $\frac{3}{4}$ "
2	93.5	129	2	22 $\frac{1}{4}$ "	10' 10 $\frac{1}{4}$ "
3	96.0	163	2	28 $\frac{3}{4}$ "	12' 4 $\frac{3}{4}$ "
4	128.0	190	2	31"	12' 7"
5	103.0	293	2	36 $\frac{3}{4}$ "	15' 0 $\frac{3}{4}$ "
6	110.0	293	2	37 $\frac{1}{2}$ "	15' 1 $\frac{1}{2}$ "
8	148.0	403	2	40"	15' 4"
10	198.0	358	2	44"	15' 8"



SCREW HOISTS



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				Net	Gross (Boxed)		
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3	10	243.00	6.00	260	362	35 x 28 x 19	RIAMASEME
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The load is carried on two strands of the highest grade electrically butt welded steel chain which are fastened to clevises in the bottom swivel in such a manner that they can turn to relieve any twist in the chain. The two wheels over which these chains pass have deep pockets, strong teeth and thick flanges, are driven by square holes fitting over squared hubs of the worm gear and are held in place by a bolt and washers passing clear thru the worm gear hub.

The bronze rim of the worm gear is securely riveted to and machined as one piece with the hub, all teeth being carefully and accurately hobbled. It meshes with an accurately machine cut high carbon steel worm, both parts being carried in a casing without a joint below the worm gear center, so that the worm always runs in a bath of grease.

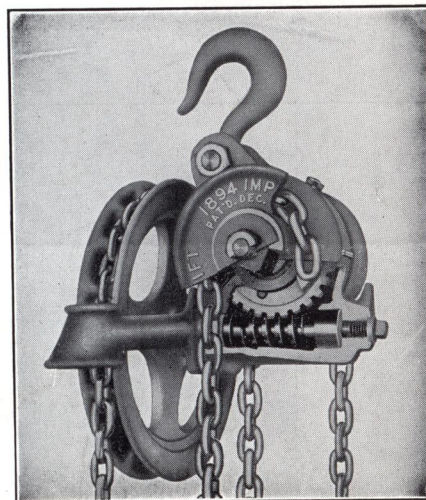
Thrust of the worm due to the load is always against the back end of the case where a bronze washer and screw bear against the center area of the large hardened worm end. The pressure angles of the gearing together with the friction of the bronze thrust washer prevent overhauling of the worm and acceleration in descent when operation for lowering is stopped. If extra braking is desired the thrust screw can be backed out allowing the larger area of the worm end to bear directly against the case.

Two steel side plates make a connection between the swivel of the top hook and the bearings thus relieving the cast case of all strains of suspension. Both hooks are drop forged and securely fastened into their swivels with provision for free turning.

A flaring hand chain guide is so placed that the operator can stand clear of the load without wasting labor by dragging the chain in the guard.

This load chain can easily be removed from the pocket sheaves to make the unit lighter when hanging it up. In replacing, care should be taken that the loop behind the wheels is not twisted and that the hook swivel hangs level. The wheels can be reversed when one side of the teeth become worn after long use and the chain can be reapplied in a quarter turn position to equalize any wear between links.

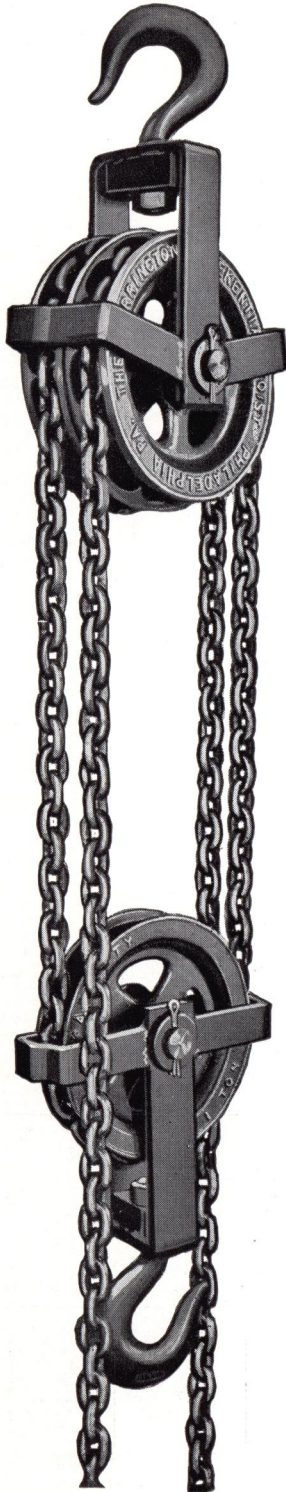
Capacity, in Gross Tons	Feet of chain handled to lift load one foot	Pull on hand chain to lift full load in pounds	Number of strands of load chain	Distance between Hooks	
				Shortest, in inches	Reach (Reg. Lift)
$\frac{1}{4}$	64.0	20	2	14"	9' 2"
$\frac{1}{2}$	60.5	49	2	15 $\frac{1}{2}$ "	9' 3 $\frac{1}{2}$ "
1	76.0	71	2	17 $\frac{3}{4}$ "	9' 5 $\frac{3}{4}$ "
$1\frac{1}{2}$	88.5	99	2	19 $\frac{3}{4}$ "	9' 7 $\frac{3}{4}$ "
2	93.5	129	2	22 $\frac{1}{4}$ "	10' 10 $\frac{1}{4}$ "
3	96.0	163	2	28 $\frac{3}{4}$ "	12' 4 $\frac{3}{4}$ "
4	128.0	190	2	31"	12' 7"
5	103.0	293	2	36 $\frac{3}{4}$ "	15' 0 $\frac{3}{4}$ "
6	110.0	293	2	37 $\frac{1}{2}$ "	15' 1 $\frac{1}{2}$ "
8	148.0	403	2	40"	15' 4"
10	198.0	358	2	44"	15' 8"



DIFFERENTIAL HOISTS

MODEL B—STEEL FRAME

STEEL FOR STRENGTH AND SAFETY



Rolled STEEL Frames in place of malleable castings.

Only STEEL in tension from hook to hook.

Breakage Largely Eliminated.

Additional Strength for Safety.

Accurately Cast, Smooth Running Sheave Wheels.

Top and Bottom Hooks are Drop Forged STEEL.

Frame of Bar STEEL.

Chain is STEEL Electrically Butt Welded on the side
and Doubly Tested.

Only Nine Working Parts.

Bearing Pins are Cold Rolled STEEL.

All parts interchangeable—produced in accurate jigs
and fixtures.

Capacity, in Tons	Regular Lift, in feet	Price of Hoist, regular lift	Price of Extra Lift, per foot	Weight of Hoist (reg- ular lift), in pounds	
				Net	Gross (Boxed)
$\frac{1}{4}$	6	\$24.00	\$6.00	25	30
$\frac{1}{2}$	7	28.00	6.00	34	40
1	8	44.00	6.40	54	64
$1\frac{1}{2}$	$8\frac{1}{2}$	56.00	6.80	84	96

DIFFERENTIAL HOISTS

—Continued

Harrington Differential Hoists are the simplest type that it is possible to make consisting of only nine parts. Repairs are reduced to a minimum.

They are easy to carry from one job to another because of their light weight.

On the farm, they are useful for installing machinery, making equipment repairs, lifting stone, tightening fence wire and for a hundred other general purposes.

They will stand exposure to weather with less damage than other hoists.

In garages they are a necessity. Used for raising engine blocks out of cars, making general heavy repairs, lifting damaged cars for towing, handling truck tires and parts, and for raising cars for under chassis lubrication.

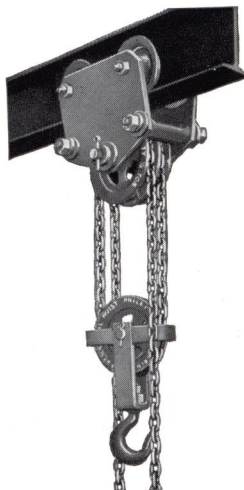
They are recommended wherever a sturdy safe portable light weight hoist is required for relatively light loads.

The chain in this style of hoist is endless, passing around one lower and two upper sheaves. The load is always held at any point, as the difference in the diameter of the double upper sheaves, which have one more pocket on one side than the other, is too small to over-balance the friction of the parts.

The utmost care is taken in the manufacture of both the chain and the sheaves so that they fit correctly. Although low in price, the same care is exercised in their manufacture as in making the Harrington Peerless and Screw Hoists, and all parts will readily interchange.

"HANDY DIFF" TROLLEY HOIST

TYPE D



*It Lifts Quickly
It Lifts Safely
It Rolls Easily*

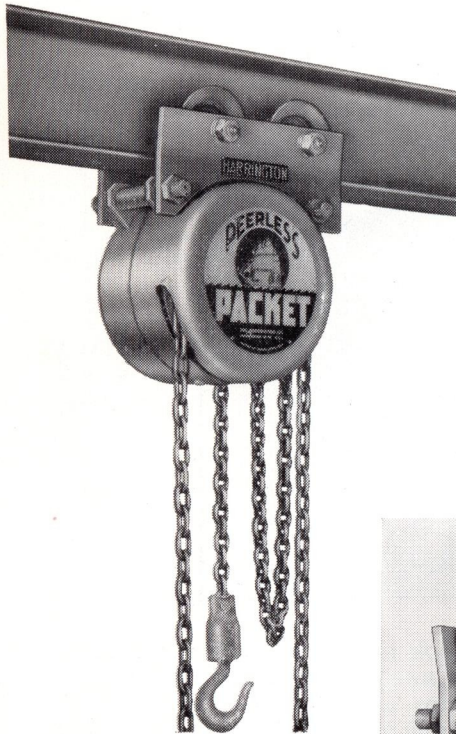
It is a built-in combination of a ball bearing trolley and the lifting mechanism of a differential hoist to save the loss of headroom due to the usual top hook suspension. The trolley has four pressed steel hard-

ened tread wheels, each with double row ball bearings and means for pressure gun lubrication. Each trolley is adjustable in width for several sizes of I-beams. Trolley side frames are inclined so that the wheels have a flat bearing on the beam flange.

The "Handy Diff" Trolley Hoist is offered in three capacities and each can be furnished with any desired height of lift. The hoisting mechanism can be quickly separated from the trolley and if assembled with a regular Differential top yoke and hook it can then be used as a regular hook hoist.

Cap. in Gross Tons	Regular Lift in Feet	Price Regular Lift	Price of Extra Lift Per Ft.	Adjustable for Beam Sizes	Shortest Distance between hook and beam
$\frac{1}{4}$	6	\$60.00	\$6.00	4"—7"	14 $\frac{1}{2}$ "
$\frac{1}{2}$	7	63.00	6.00	5"—8"	16 $\frac{1}{2}$ "
1	8	90.00	6.40	6"—9"	20 $\frac{3}{8}$ "

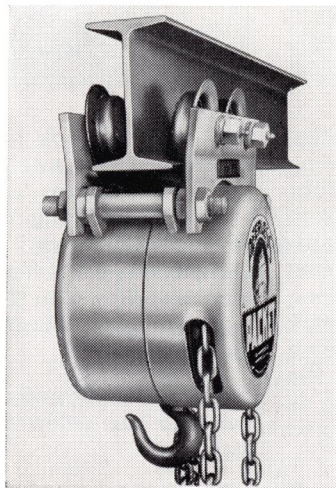
Capacity, in Tons	Size of Box, in inches	Code Word for regular lift hoist	Feet of chain handled to lift load one foot	Pull on hand chain to lift full load, in pounds	Number of strands of load chain	Distance between Hooks	
						Shortest, in inches	Reach (Reg. Lift)
$\frac{1}{4}$	16 x 8 $\frac{1}{2}$ x 5 $\frac{1}{4}$	RIANACASMO.....	18	72	2	17"	7' 5"
$\frac{1}{2}$	16 x 8 $\frac{1}{2}$ x 5 $\frac{1}{4}$	RIANARIOS.....	24	122	2	21"	8' 9"
1	20 x 11 x 6 $\frac{1}{4}$	RIANATICOS.....	30	216	2	26"	10' 2"
1 $\frac{1}{2}$	20 x 13 x 8 $\frac{1}{4}$	RIANDRICO.....	36	246	2	32"	11' 2"



PEERLESS PACKET ALL-STEEL TROLLEY HOISTS

for close head room—
adjustable to several
sizes of I-beams

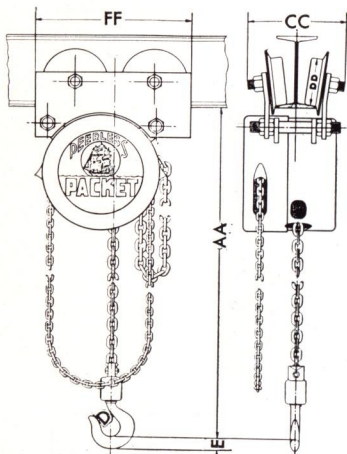
Low headroom is a feature of the Peerless Packet Trolley Hoist. The hoist is close to the beam, and the lifting hook can come closer to the beam than with regular hook types.



Packet Trolley Hoists are a combination of a hoist and an adjustable trolley which fits a wide range of I-beam sizes without dismantling. Trolley wheels—pressed from high carbon steel and hardened—have large diameter, double row, pressure lubricated ball bearings. Trolley frames are designed to permit wheel treads to bear uniformly on the tapered flanges of standard beams.

Straight frames can be supplied where beams have flat flanges.

For hook type see Bulletin P-5.



Capacity in Net Tons	Regular Lift in Feet	Price		Range of I Beam Sizes	Beam to Hook AA Min.	Length FF
		Regular Lift in Feet	Extra Lift per Foot			
1/2	8	\$135.00	\$2.23	5" to 10"	12"	11 1/2"
1	8	146.00	2.40	6" to 10"	12 3/8"	12 1/2"
2	9	206.00	3.60	8" to 12"	20"	13 3/4"

Capacity in Net Tons	Width CC		Wheel Tread DD	Min. Radius	Weight in pounds	
	Min.	Max.			Net	Gross
1/2	8 3/16"	9 7/8"	3 1/8"	20"	69	77
1	8 7/16"	10 3/16"	4"	24"	78	86
2	10"	11"	4 7/8"	36"	109	118

Beam Clamp for operation by wheel & chain,
or hand nut control \$35.00 extra

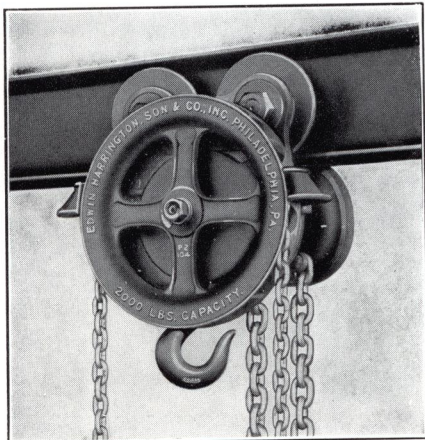
Trolley Hoists for flat flange beams are available at no extra cost when flange width is within range of adjustment for regular trolley hoist.

Trolley Hoists for beams wider or narrower than listed can be made to order at \$15.00 additional. All prices subject to change without notice.

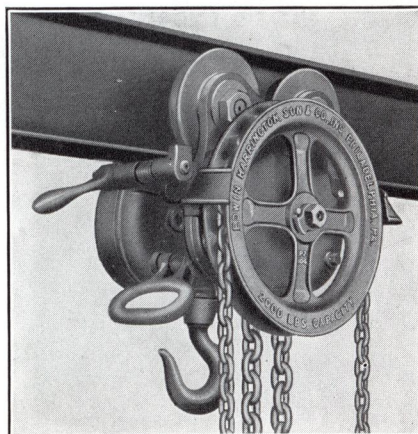
PEERLESS TROLLEY HOISTS

TYPE B

PLAIN
TROLLEY
HOIST



WITH
RAIL
CLAMP



A very efficient equipment for service trucks, shops, garages, or warehouses where the saving of each inch of head room is important. Four straight tread wheels carried by large studs from the flared side frames of the hoist and fitted with ball bearings allow easy propulsion along a level beam when the hoist is loaded. The construction is so compact that the distance between the hook and beam is even less than between the hooks on the regular hoist. The gears in the back and the friction mechanism in the front are the same as in the Peerless Hook Type and are protected from dirt by tight covers.

Use Type H, CH or Packet Trolley Hoists with straight side plates for beams having flat flanges.

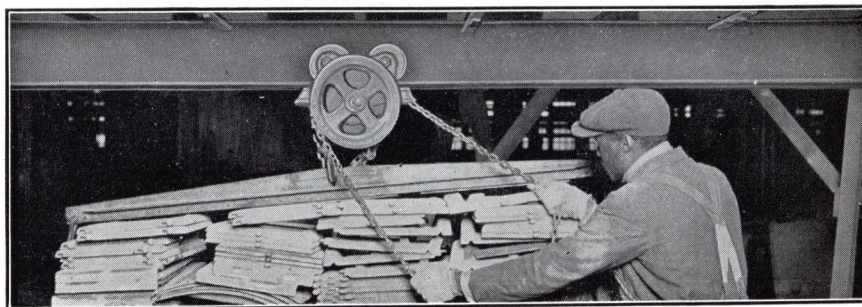
Trolley Hoists will be shipped for use on regular I-beams with small wheels (Pc. 260) and

ball bearing hook and swivel unless otherwise specified. The small wheels permit more space for beam clamps and the ball bearing hook allows easy turning of the load at a small sacrifice of minimum head room for both features. Dimensions for different wheel and hook equipment are shown on the next page. Not adjustable—give height of beam, flange width, weight per foot.

A drag handle and clamp for locking the trolley hoist to the beam can be supplied as an extra feature.

If geared traverse is required, use type H or CH, described on pages following.

When ordering repair parts the size of I-beam should be stated.



Capacity in Gross Tons	Regular Lift in Feet	Price Regular Lift	Price of Extra Lift Per Foot	Price for Handle and Clamp Extra	Minimum Radius of Track Curve	Weight of Hoist—Regular Lift, in Pounds	
						Net	Gross
1/4	8	\$240.00	\$3.10	\$60.00	21"	70	80
1/2	8	240.00	3.30	60.00	21"	74	85
1	8	300.00	3.80	60.00	27"	128	142
1 1/2	8	390.00	4.00	60.00	36"	165	180
2	9	440.00	4.20	60.00	48"	210	245

THE HARRINGTON COMPANY

SUPERSEDING

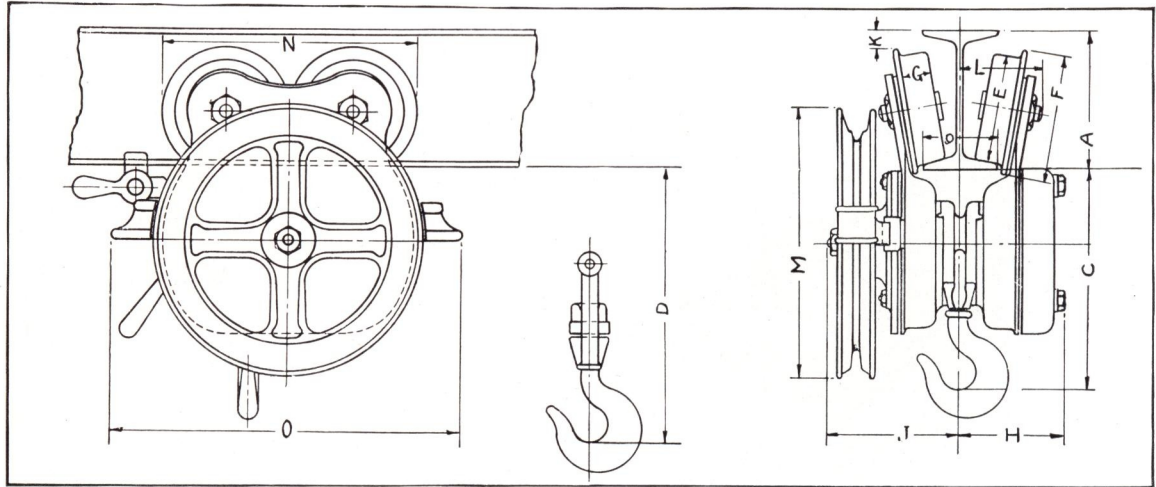
GRAVERS ROAD at the TURNPIKE

BULLETIN P-35

Bulletin P-35 of Jan. 1, 1954

PLYMOUTH MEETING, PA.

JUNE 1, 1954



DIMENSIONS WITH SMALL WHEELS Pc. 260

Capacity in Gross Tons	A	C	D	E	F	H	J	K	L
1/4	5	8 5/8	9 3/4	3 3/8	4	Q/2 + 3	Q/2 + 3 3/4	1 1/8	Q/2 + 1 3/4
1/2	5	8 7/8	10	3 3/8	4	Q/2 + 3	Q/2 + 3 3/4	1 1/8	Q/2 + 1 3/4
1	6	10	11 3/4	4 3/8	5	Q/2 + 3 3/8	Q/2 + 4	1 1/8	Q/2 + 1 5/8
1 1/2	7	12 1/2	14 1/2	5 1/4	6	Q/2 + 4	Q/2 + 4 3/8	1 1/4	Q/2 + 2
2	8	13 1/4	15 1/2	5 3/4	6 3/8	Q/2 + 4 3/4	Q/2 + 4 3/4	1 5/8	Q/2 + 2 3/8

DIMENSIONS WITH LARGE WHEELS Pc. 243

Capacity in Gross Tons	A	C	D	E	F	H	J	K	L
1/4	5	8 1/4	9 3/8	4 1/8	4 5/8	Q/2 + 3	Q/2 + 3 3/4	5/16	Q/2 + 1 3/4
1/2	5	8 1/2	9 5/8	4 1/8	4 5/8	Q/2 + 3	Q/2 + 3 3/4	5/16	Q/2 + 1 3/4
1	6	9 3/4	11 1/2	4 7/8	5 1/2	Q/2 + 3 3/8	Q/2 + 4	5/16	Q/2 + 1 5/8
1 1/2	7	12 1/4	14 1/4	5 3/4	6 3/8	Q/2 + 4	Q/2 + 4 3/8	5/8	Q/2 + 2
2	8	13	15 1/4	6 3/16	7 3/16	Q/2 + 4 3/4	Q/2 + 4 3/4	1	Q/2 + 2 3/8

Capacity in Gross Tons	Size of Regular I-Beam		Smallest I-Beam	Greatest Flange Width	Flange Width Limit at Regular Price
	A	Q	A. minimum	Q. maximum	
1/4	5"	10.0 lb. x 3.00" flange	5"	12"	4.00"
1/2	5"	10.0 lb. x 3.00" flange	5"	12"	4.00"
1	6"	12.5 lb. x 3.33" flange	5"	16"	4.33"
1 1/2	7"	15.3 lb. x 3.66" flange	6"	18"	4.66"
2	8"	18.4 lb. x 4.00" flange	7"	18"	5.00"

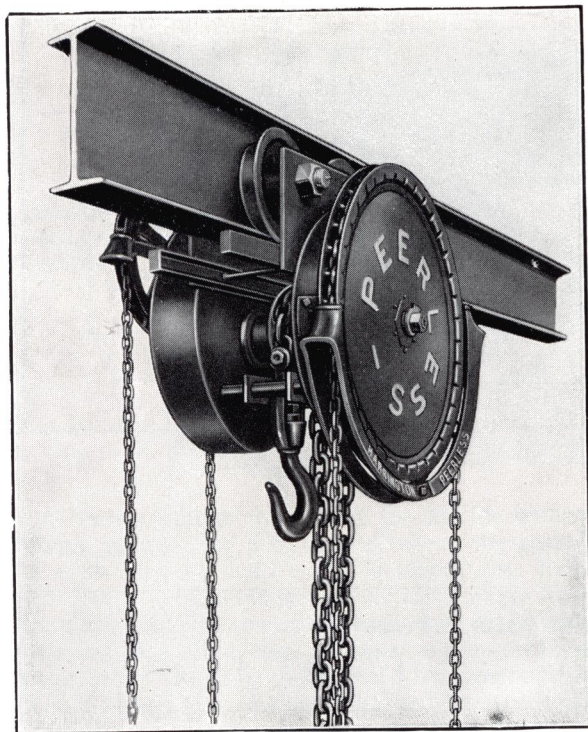
Unless otherwise specified, type B trolley hoists will be shipped with small wheels Pc. 260 spaced for operation on the regular size of I-beam, and with ball bearing hook and swivel on the load chain.

Substitution of large wheels or a different hook will not affect price.

Changing widths within limits of last data column without price increase—greater widths subject to extra charge.

PEERLESS TROLLEY HOISTS

TYPE H



3-TON TYPE H TROLLEY HOIST
WITH GEARED TRAVERSE

Type H Trolley Hoists are ideal equipment on monorails or on overhead traveling and jib cranes where closer head room is desired than can be obtained by regular Peerless Hoists suspended from trolleys. The capacities go up into larger sizes than Type B trolley hoists and this line has the advantage of geared or plain traverse as desired.

Type H Trolley Hoists are of all steel construction, and use the same internal mechanism as the regular Peerless Hoist described in

another bulletin with the ball bearing mounting for the load wheel, heat-treated alloy steel gears with the five year guarantee, the silent and positive friction sustaining mechanism enclosed in a dirt-proof case and the exclusive Peerless feature of the outer support bearing for the hand wheel. The front and back units are spaced farther apart than in the regular hoist and the load wheel has longer hubs, the exact length depending on the width of the beam flange.

The trolley side frames are cut from heavy rolled steel plate and are rigidly attached to the hoisting unit by arc welding and bolting, thereby making an assembly of great strength. Each trolley wheel has an alloy steel ball bearing at each end of its hub and a quickly adjustable threaded collar provides an easy means of taking up any slack.

The 1 to 3 ton sizes both carry the load on single strands of load chain; the 4, 5 and 6 ton sizes use two strands of chain with a bottom idler, and the 8 and 10 ton sizes carry the load on three strands of chain with one bottom and one top idler. In the diagram drawing and data on the next page the minimum distance of hook to beam is given for the smaller sizes both for ball bearing bottom hook denoted as BB, and for the plain hook and swivel denoted as PS. A slight additional amount of head room can be saved by using a rigid hook without the swivel feature.

Because of the large range of beam shapes and sizes for which these trolley hoists can be furnished, they are not scheduled for use on any particular beam and the final assembly is not completed until the customer's beam size is

Capacity in Gross Tons	Regular Lift in Feet	Price		Price of Extra Lift Per Foot		Weight of Geared H Trolley Hoist *		Smallest I-Beam With No Obstructions A	Greatest Flange Width Q. maximum
		Plain Traverse	Geared Traverse	Plain	Geared	Net	Gross		
1/2	8	\$240.00		\$3.30				5"	15"
1	8	300.00	\$370.00	3.80	\$5.80	155 lbs.	180 lbs.	6"	13"
1 1/2	8	390.00	455.00	4.00	6.00	210	270	6"	14"
2	9	440.00	510.00	4.20	6.20	265	305	7"	13"
3	10	515.00	610.00	5.20	7.20	390	440	8"	8"
4	10	650.00	860.00	6.40	8.40	380	430	9"	12"
5	12	890.00	980.00	8.40	10.40	565	630	10"	10"
6	12	1095.00	1185.00	8.40	10.40	585	650	10"	10"
8	12	1215.00	1485.00	11.60	13.60	920	100	15"	8 1/2"
10	12	1410.00	1700.00	14.00	16.00	1000	1080	15"	10"

*For approximate weights of plain type deduct 30 lbs for 1, 1 1/2 and 2 ton; 40 lbs for 3 and 4 ton, 47 lbs for 5 ton and larger. 1/2 ton plain—80 lb net.

THE HARRINGTON COMPANY

SUPERSEDING

Bulletin P-35 of Jan. 1, 1954

GRAVERS ROAD at the TURNPIKE
PLYMOUTH MEETING, PA.

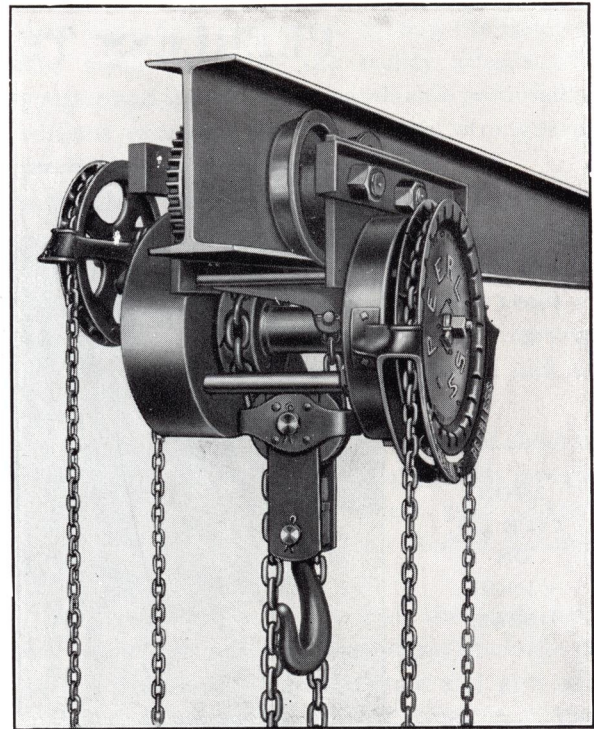
BULLETIN P-35

JUNE 1, 1954

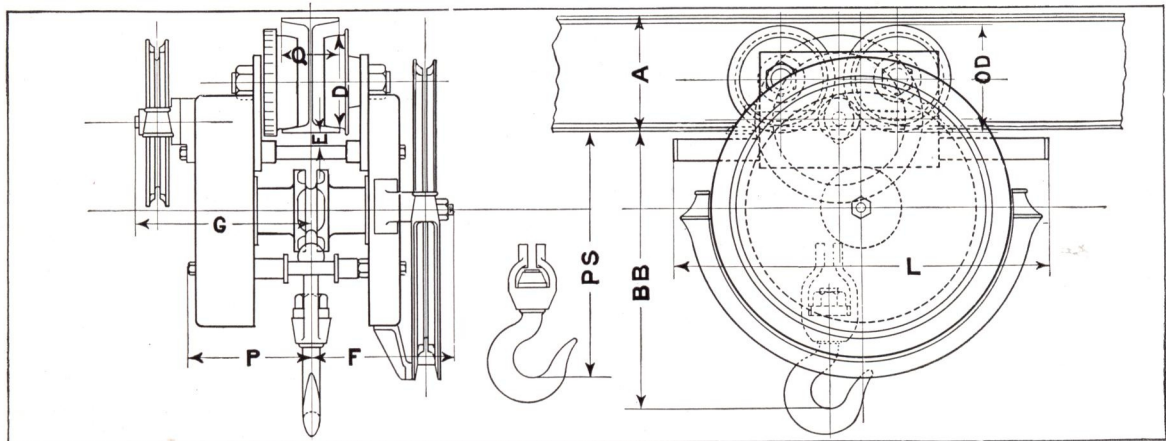
known. The beam height must not be less than dimension A to permit operation of the trolley wheels and the flange width must not be greater than Q maximum to keep within safe limits for load wheel strength. Hoists are equipped with chilled curved tread trolley wheels to suit Standard I Beams or flat flange girders. Extremes in beam flange thickness may cause interference with studs or load wheel.

Geared trolley hoists have the two hand chains on opposite sides of the beam, thus avoiding all interference and confusion of the operator. Any type H trolley hoist originally ordered in the plain or push type can be converted at any time by the addition of geared traverse parts.

When ordering, be sure to state the height and width and unit weight of the beam, thickness of flange, degree of taper of flange, and give the maker's catalogue number if possible. Also specify capacity, height of lift, and whether geared or plain traverse.



4-TON TYPE H TROLLEY HOIST
WITH GEARED TRAVERSE

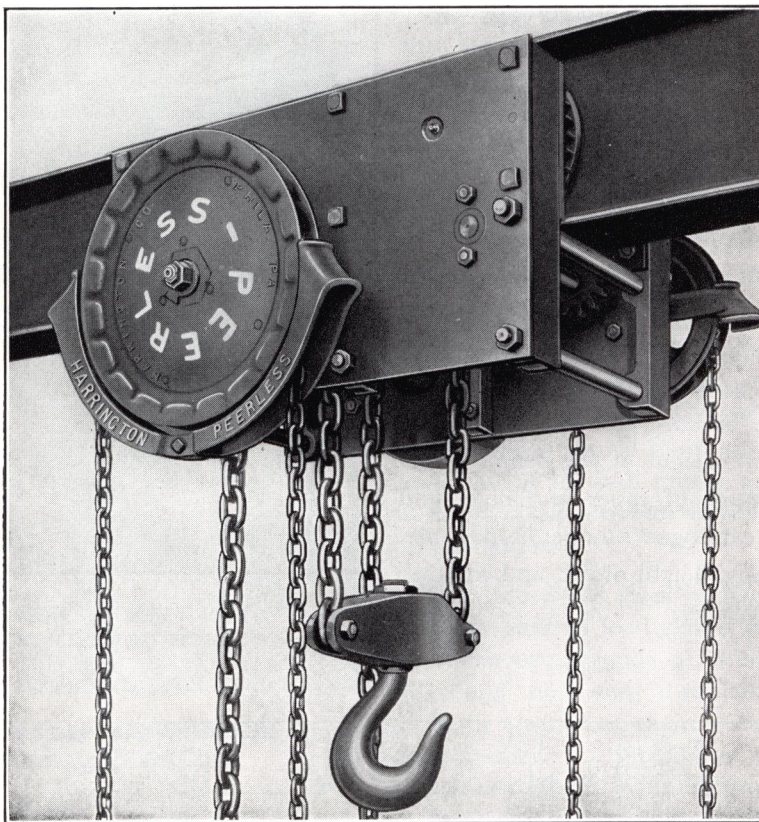


Capacity in Gross Tons	Minimum Hook to Beam		Wheel Diameters		Front Projection F	Rear Projection		Length L	Smallest Radius of Curve
	BB	PS	D	OD		Plain P	Geared G		
1/2	9 3/4"	8 5/8"	3 3/8"	4 1/4"	Q/2 + 6"	Q/2 + 4 1/4"	Q/2 + 8 3/4"	12 1/4"	24"
1	13 1/2"	11 3/4"	4 1/4"	5"	Q/2 + 6 1/4"	Q/2 + 5 3/4"	Q/2 + 9 1/4"	16 1/2"	26"
1 1/2	14 1/2"	12 3/4"	4 3/4"	5 5/8"	Q/2 + 6 3/4"	Q/2 + 6 3/4"	Q/2 + 9 1/4"	17 7/8"	33"
2	16 1/4"	14"	5 1/2"	6 3/8"	Q/2 + 7 1/8"	Q/2 + 7"	Q/2 + 10"	19 1/4"	42"
3	19"	16 5/8"	6 1/2"	7 1/2"	Q/2 + 7 3/4"	Q/2 + 7 1/4"	Q/2 + 10 1/8"	26"	48"
4	22"	19"	7 3/8"	8 1/4"	Q/2 + 7 1/2"	Q/2 + 7 1/4"	Q/2 + 10"	20"	72"
5	25 3/8"	21"	8 1/8"	9 1/4"	Q/2 + 7 7/8"	Q/2 + 7 1/2"	Q/2 + 10 1/4"	25 1/2"	84"
6	26"	22"	8 1/8"	9 1/4"	Q/2 + 7 7/8"	Q/2 + 7 1/4"	Q/2 + 10 1/4"	25 1/2"	84"
8	29"	25"	11"	12 1/2"	Q/2 + 8 1/4"	Q/2 + 7 1/2"	Q/2 + 9 7/8"	28 3/4"	144"
10	31 1/2"	27"	11"	12 1/2"	Q/2 + 8 1/4"	Q/2 + 7 1/2"	Q/2 + 9 7/8"	30"	144"

PEERLESS TROLLEY HOISTS

TYPE CH

3-TON
TYPE CH
ON
8-INCH
I-BEAM



Type CH Peerless Trolley Hoists satisfy the most exacting demands for close head room conditions where the load hook must rise to the highest possible point, because the hook can ascend between the frames until the top of the hook shank touches the beam. They are used chiefly on straight monorails and on traveling cranes or in any other location where the load must be lifted to the maximum height.

Smaller sizes carry the load on two strands and larger sizes on four strands of chain. Each side of the hoist is a complete box section of flat rolled steel plates with ample spacing blocks and boltings. Load chain wheels carried within these box sections run on stationary studs as a further protection against any increase of operating effort by binding from irregularities in the beam.

Capacity in Gross Tons	Regular Lift in Feet	Price		Extra Lift Per Foot		Weight of Geared CH Trolley Hoist *		Smallest I-Beam With No Obstructions A
		Plain Traverse	Geared Traverse	Plain	Geared	Net	Gross	
2	9	\$900.00	\$970.00	\$6.00	\$8.00	430 lbs.	495 lbs.	8"
3	10	920.00	1000.00	6.00	8.00	440	505	8"
4	10	1165.00	1280.00	6.40	8.40	565	640	9"
5	12	1385.00	1500.00	8.40	10.40	780	860	10"
6	12	1520.00	1665.00	8.40	10.40	795	875	10"
8	12	2170.00	2425.00	10.80	12.80	965	1070	10"
10	12	3150.00	3420.00	14.80	16.80	1330	1440	15"
12	12	3525.00	3820.00	14.80	16.80	1350	1470	15"

*For approximate weights of plain type deduct 37 lbs for 2, 3 and 4 ton, 52 lbs for 5 and 6 ton, 65 lbs for 8, 10 and 12 ton.

THE HARRINGTON COMPANY

SUPERSEDING

Bulletin P-35 of Jan. 1, 1954

GRAVERS ROAD at the TURNPIKE
PLYMOUTH MEETING, PA.

BULLETIN P-35

JUNE 1, 1954

The operating mechanism is a Peerless all steel hoist with alloy steel heat-treated spur gearing, silent rotary sustaining friction mechanism enclosed in a dirt-proof cover and with the outer support bearing for the pinion shaft. The hand wheel and friction are on one side and the gearing on the opposite side, thus keeping the unit in balance. The main driving shaft is carried from both frames on alloy steel ball bearings with provision for alignment to compensate for strains due to imperfect beams.

Trolley wheels each have two alloy steel ball bearings running on stationary studs held by the inner wall of each box section side frame. Each stud has a threaded collar for easy adjustment of ball bearings. Hoists are equipped with chilled curved tread trolley wheels to suit Standard I Beams or flat flange girders.

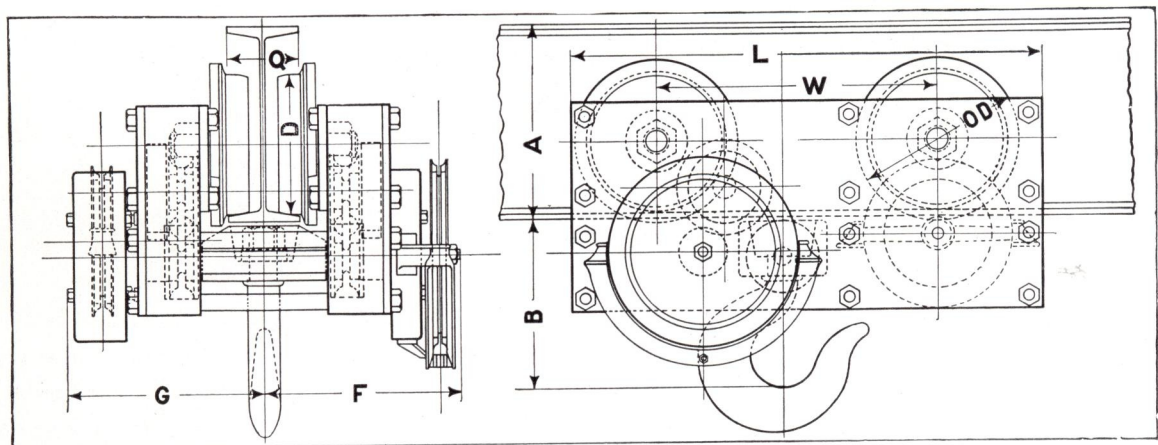
Sizes and styles of beams on which these trolley hoists are used vary so much that final assembly is delayed until the style and dimensions of beam are known. In the diagram and

data below figures are given to show the smallest size beam on which the trolley wheels will operate and the widest flange which is permissible without exceeding safety limits in strength of the hook yoke.

Traverse gearing for movement along the beam is from a pendent chain and wheel through a shaft with two pinions engaging trolley wheels on opposite sides of the beam flange. Plain or push type consists of the omission of traverse gearing which can be added to a plain unit at any future time.

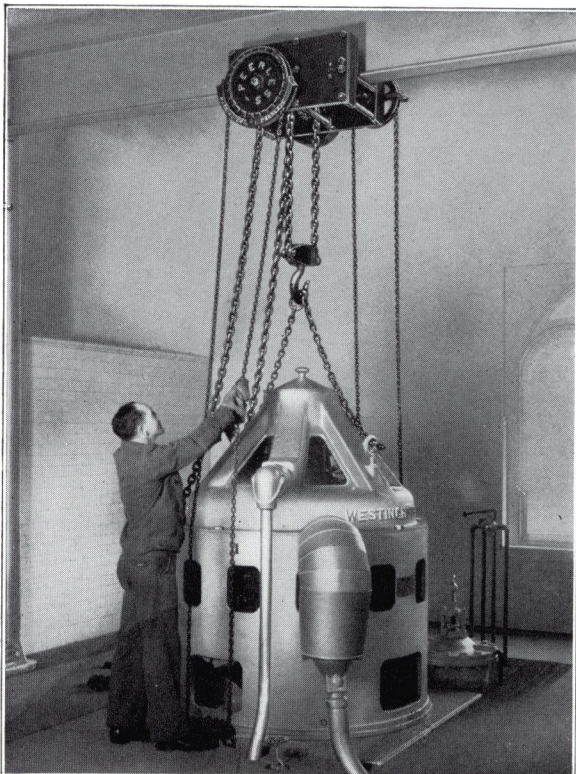
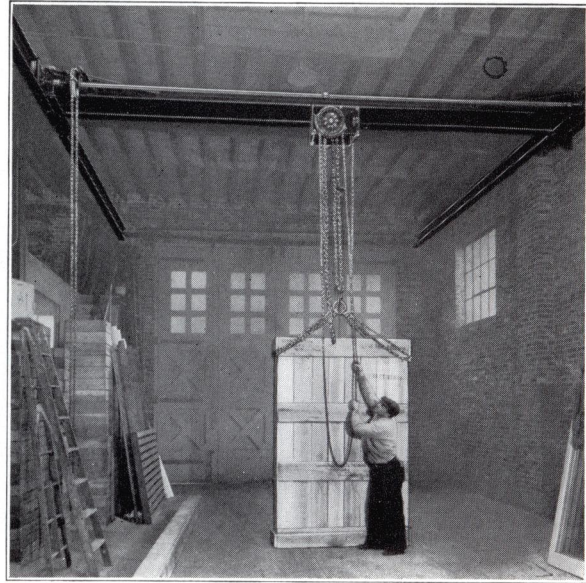
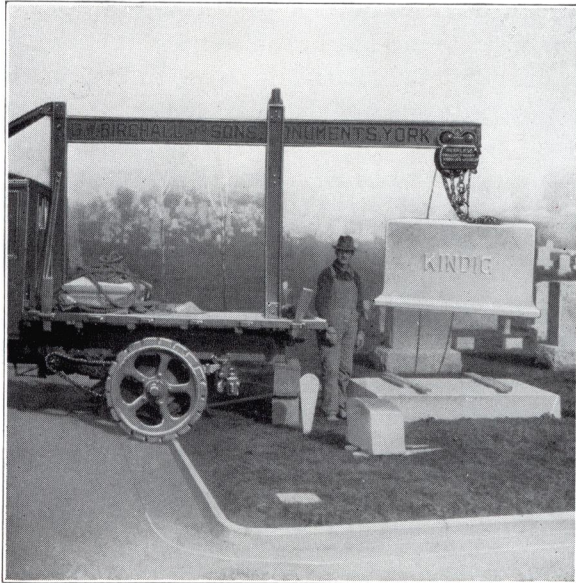
Lubrication of trolley wheels and load sheaves is through easily accessible nipples from a regulation compression type grease gun. Other mechanism is lubricated by oil applied through readily accessible fittings.

When ordering be sure to state the height and width and unit weight of the beam, thickness of flange, degree of taper of flange and give the maker's catalogue number if possible. Also specify capacity, height of lift, and whether geared or plain traverse.



Capacity in Gross Tons	Greatest Flange Width Q. maximum	Minimum Hook to Beam B	Wheel Diameters		Front Projection	Rear Projection	Length	Strands of Load Chain
			D	OD	F	G	L	
2	13"	7"	6 1/4"	7 1/2"	Q/2 + 9 3/4"	Q/2 + 9 1/2"	26 1/4"	2
3	13"	7 1/2"	6 1/2"	7 1/2"	Q/2 + 9 3/4"	Q/2 + 9 1/2"	26 1/4"	2
4	13"	9 3/4"	7 3/8"	8 3/4"	Q/2 + 10 7/8"	Q/2 + 10 5/8"	27"	2
5	13"	10 3/8"	8 1/8"	9 1/4"	Q/2 + 11 7/8"	Q/2 + 12 1/8"	31 7/8"	2
6	11"	10 3/8"	8 1/8"	9 1/4"	Q/2 + 11 7/8"	Q/2 + 12 1/8"	31 7/8"	2
8	15"	12"	8 5/8"	9 1/4"	Q/2 + 11"	Q/2 + 10 3/4"	32 1/4"	4
10	16 1/2"	13"	11"	12 3/8"	Q/2 + 12 1/4"	Q/2 + 12 3/4"	36"	4
12	14"	13"	11"	12 3/8"	Q/2 + 12 1/4"	Q/2 + 12 3/4"	36"	4

PEERLESS TROLLEY HOISTS SAVE HEAD ROOM

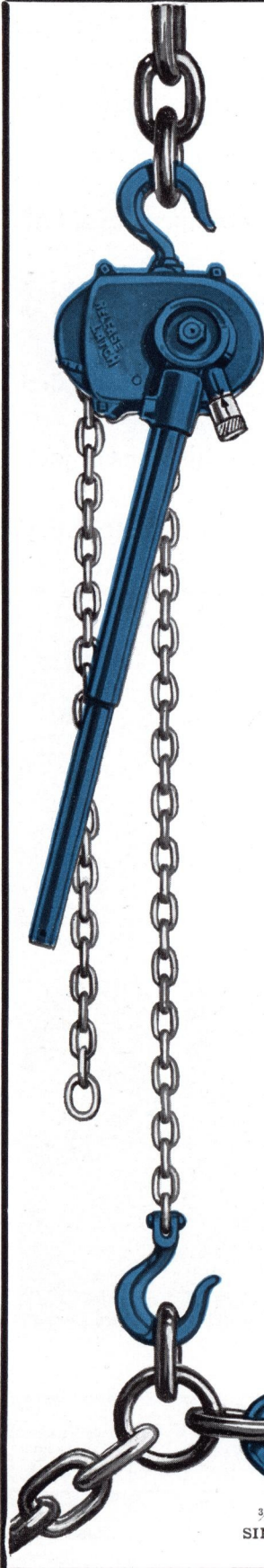


HARRINGTON

CUM ALONG

MODEL B

LEVER PULLER



USE IT IN ANY POSITION

HOLDS THE LOAD AT ANY POINT

LIFTS FULL LOAD WITH LITTLE EFFORT

LOWERS SMOOTHLY AND EASILY

LOAD WHEEL RUNS IN BRONZE BEARING AND
PINION SHAFT IN BALL BEARING

Made in two sizes, $\frac{3}{4}$ and $1\frac{1}{2}$ gross tons.

Extremely close minimum distance between hooks.

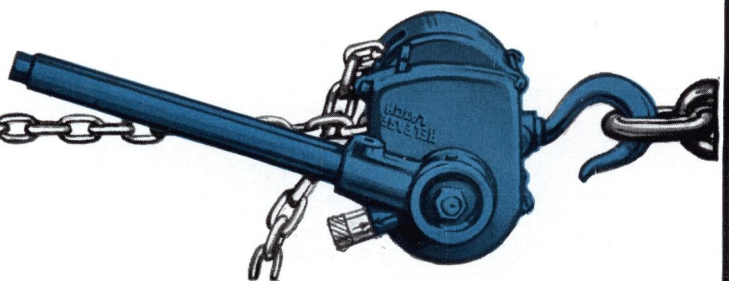
Chain is high carbon steel electrically welded and heat
treated for great strength and long life.

Chain is entirely flexible in any direction.

Its light weight makes it extremely desirable for portability.

Handle movement can be as little as 30 degrees or as much
as a full circle.

$\frac{3}{4}$ TON SIZE
SINGLE CHAIN



CUM ALONG MODEL B LEVER PULLER



1½ TON SIZE
DOUBLE CHAIN

Handle telescopes to short length for use in cramped quarters.

A pawl in the handle is quickly reversed to change direction of hook travel.

Latch release permits quick hook adjustment when not loaded.

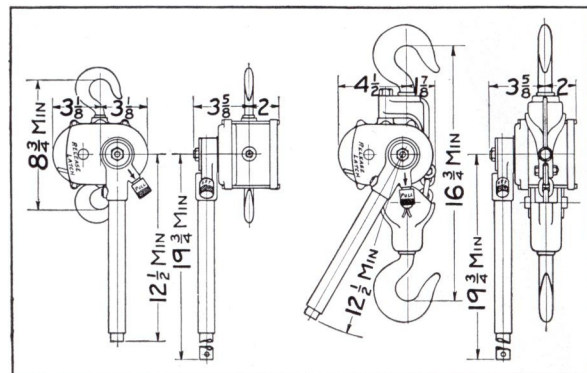
Often useful for hoisting where space will not permit a chain hoist or jack.

Practical for one man operation because of its simplicity and efficiency.

Short ratchet arc of handle (30°) allows use in congested quarters.

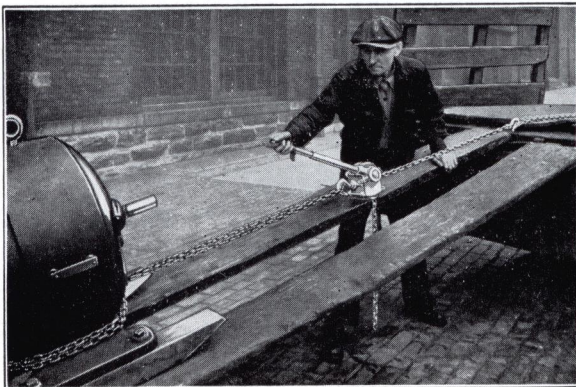
Compact in size and light in weight.

Mechanism completely enclosed.



¾ TON

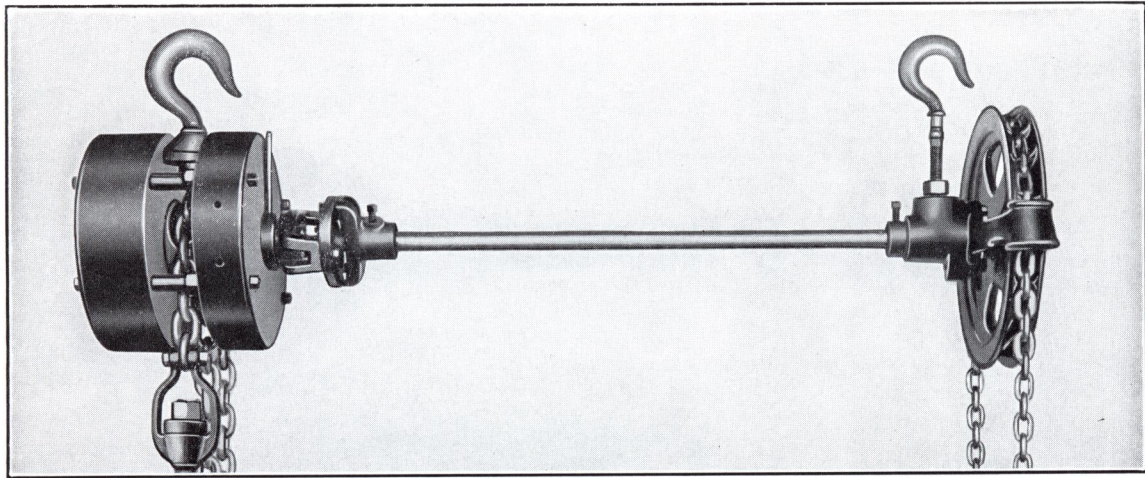
1½ TON



Capacity in Gross Tons	Regular Pull in Feet	Price		Net Weight	Minimum Distance between Hooks	Handle Radius		Effort for Full Load Movement
		Regular Size	Extra Length per Foot			Closed	Open	
¾	5	SEE BLUE PRICE SHEET		22 lbs.	8¾"	12½"	19¾"	38 lbs.
1½	5			34 "	16¾"	12½"	19¾"	40 "

PEERLESS HOISTS

WITH EXTENDED HAND WHEEL



The hand wheel on Peerless Hoists can be extended to allow operation from a position away from the center of load suspension. Such equipment is used for handling ladles of hot metal, lifting automobile bodies, lowering material into tanks and many other similar operations.

The unit can be furnished with top hooks or studs for suspension in one fixed place or it can be hung from or combined with trolleys to permit movement on an overhead track.

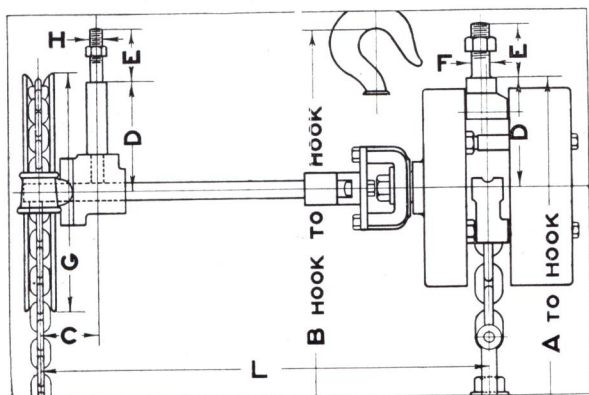
The bearing behind the extended hand wheel has a threaded hole into which can be applied either a hook, an eyebolt, or a stud.

The hoist can often be suspended from one trolley with the extended hand wheel bearing

carried on another trolley of lighter capacity. When geared trolley travel is used the point of operation for traverse is from the trolley supporting the extended hoist hand wheel.

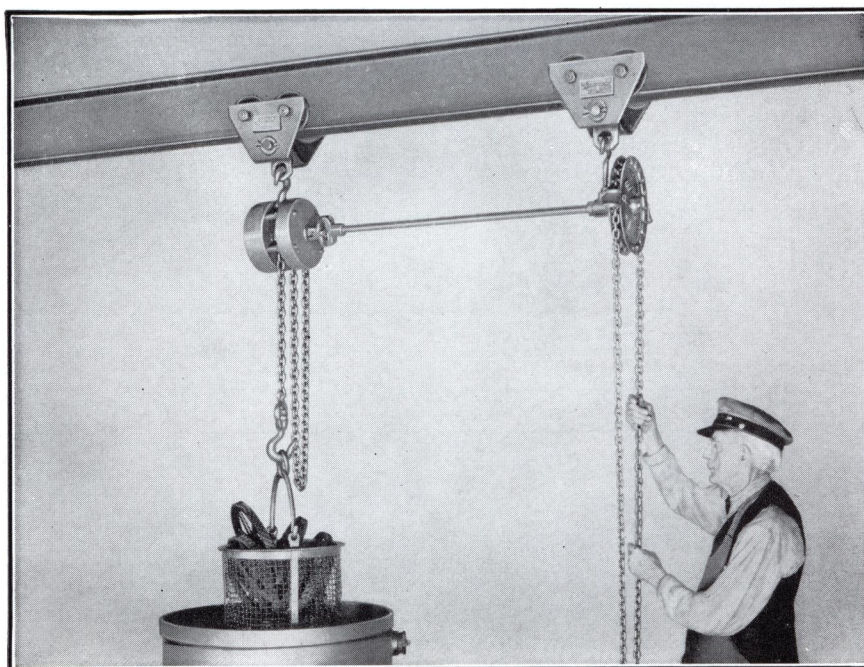
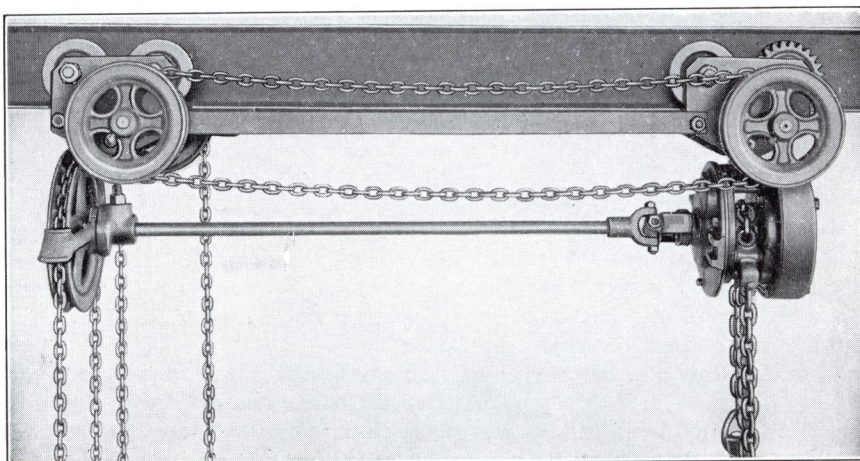
Extended hand wheel hoists can be combined with trolleys in so many different ways that it is impossible to show here anything but a few types most frequently used. Customers are invited to send a description of their job requirements which the Harrington engineers will study for the purpose of making the most practical recommendation. Hoists with studs in place of top hooks are shown in the diagram on the next page in order to give ready information to those who desire to suspend Peerless Hoists from carriers for any of the several special forms of overhead track.

Capacity, in Gross Tons	Regular Lift, in Feet	Price with Extension of 3 Feet Between Chains and with Regular Lift		Price of Additional Extension, Per Foot	Price of Extra Lift, Per Foot	Minimum Distance Between Top and Bottom Hooks	
		With Top Hooks	With Studs				
$\frac{1}{4}$	8	See blue price sheet				13 $\frac{1}{2}$ "	
$\frac{1}{2}$	8					13 $\frac{1}{2}$ "	
1	8					17"	
$1\frac{1}{2}$	8					19"	
2	9					21"	
3	10					24 $\frac{1}{2}$ "	
4	10					34 $\frac{1}{4}$ "	
5	12					38 $\frac{1}{2}$ "	
6	12					40 $\frac{1}{2}$ "	
8	12					46"	
10	12					49 $\frac{1}{4}$ "	

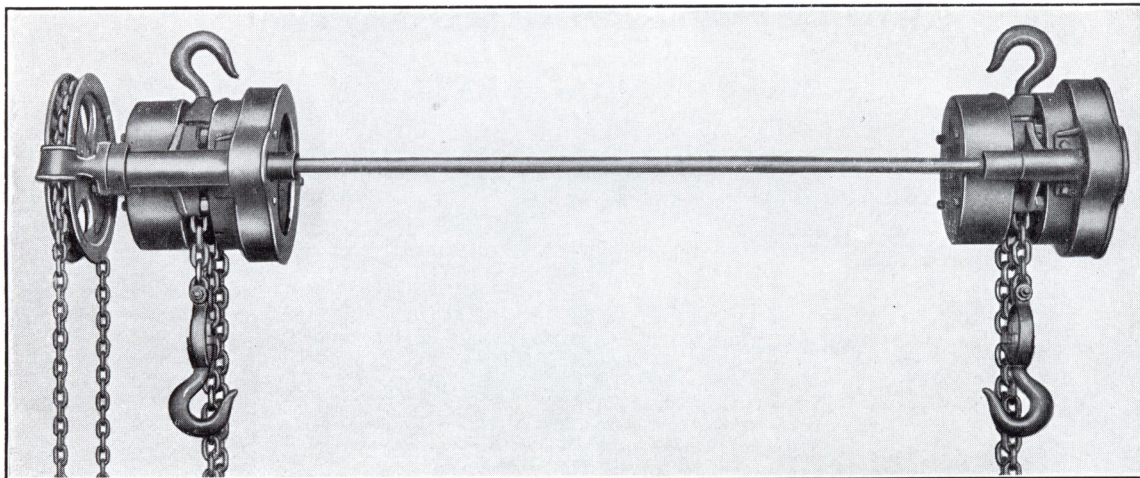


Capacity in Gross Tons	A	B	C	D *	E *	F	G
$\frac{1}{4}$	$9\frac{7}{8}$	$13\frac{1}{2}$	$2\frac{1}{2}$	$4\frac{1}{4}$	$2\frac{1}{4}$	$\frac{5}{8}$	$8\frac{7}{8}$
$\frac{1}{2}$	$9\frac{7}{8}$	$13\frac{1}{2}$	$2\frac{1}{2}$	$4\frac{1}{4}$	$2\frac{1}{4}$	$\frac{5}{8}$	$8\frac{7}{8}$
1	13	17	$2\frac{3}{4}$	5	$2\frac{1}{2}$	$\frac{7}{8}$	$11\frac{5}{8}$
$1\frac{1}{2}$	$14\frac{3}{8}$	19	3	$5\frac{7}{8}$	3	1	$13\frac{1}{4}$
2	$16\frac{1}{4}$	21	$3\frac{1}{2}$	$6\frac{3}{4}$	$3\frac{1}{2}$	$1\frac{1}{8}$	$14\frac{1}{2}$
3	$18\frac{1}{4}$	$24\frac{1}{2}$	$3\frac{3}{4}$	$8\frac{1}{4}$	4	$1\frac{1}{4}$	$20\frac{3}{4}$
4	$27\frac{1}{2}$	$34\frac{1}{4}$	$3\frac{1}{2}$	9	$4\frac{1}{4}$	$1\frac{3}{8}$	$14\frac{1}{2}$
5	$31\frac{3}{4}$	$38\frac{1}{2}$	$3\frac{3}{4}$	$10\frac{5}{8}$	$4\frac{5}{8}$	$1\frac{1}{2}$	$20\frac{3}{4}$
6	$32\frac{1}{4}$	$40\frac{1}{2}$	$3\frac{3}{4}$	$10\frac{5}{8}$	$4\frac{5}{8}$	$1\frac{1}{2}$	$20\frac{3}{4}$
8	39	45	$3\frac{3}{4}$	$10\frac{7}{8}$	$5\frac{3}{4}$	$1\frac{7}{8}$	$20\frac{3}{4}$
10	42	$49\frac{1}{4}$	$3\frac{3}{4}$	$12\frac{1}{4}$	6	$1\frac{7}{8}$	$20\frac{3}{4}$

*Can be changed if required. H is $\frac{5}{8}$ " for all capacities.



PEERLESS HOISTS FOR MULTIPLE HOOK OPERATION

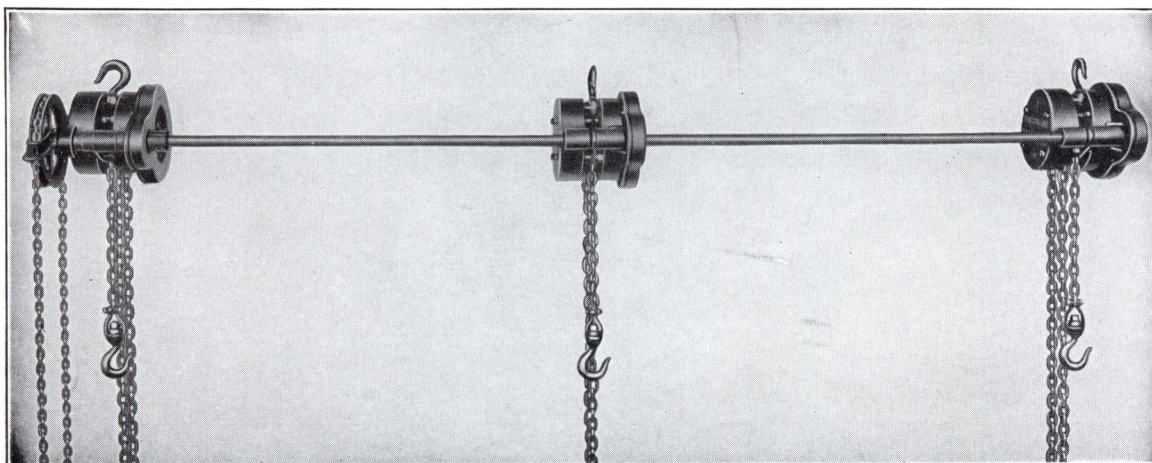


Two or more Peerless Hoists may be connected so that a load can be raised by more than one hook. This is often desirable when the load cannot be supported in the center.

All hoists are controlled by one hand wheel mounted on a shaft that drives the hoists simultaneously for either raising or lowering the load.

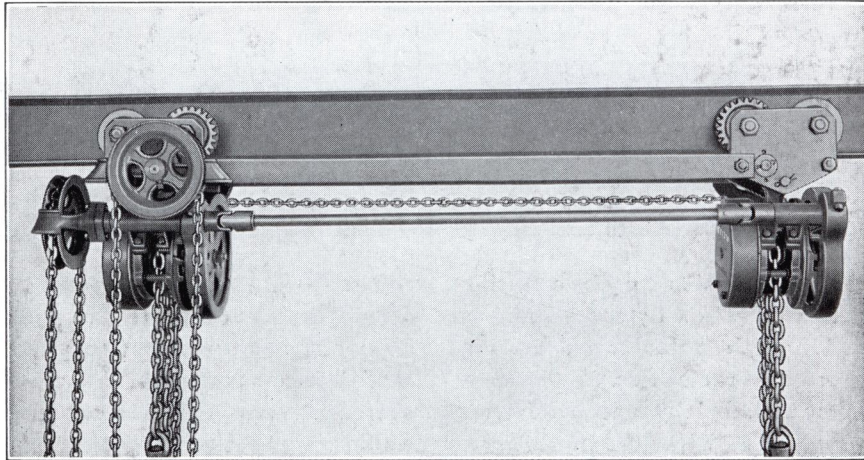
The hoists can be suspended from plain or geared trolleys connected by stiff or swivel links depending upon whether they are to operate on straight or curved track. When the trolleys have geared traverse, they are connected together by chains and pocket wheels so that all trolleys drive simultaneously.

Total Capacity of a Double Hook Combination in Gross Tons	Capacity of Each Hook in Tons	Regular Lift, in Feet	Price of Double Hook Combination 3 Feet Between Hooks and Regular Lift		Price of Additional Extension, Per Foot	Price of Extra Lift, Per Foot	Hand Chain Overhauled to Lift Load 1 foot	Pull on Hand Chain to Lift Net Ton Load
			With Top Hooks	With Studs				
1/2	1/4	8	See blue price sheet			28.0 ft.	54 lbs.	
1	1/2	8				40.6 ft.	73 lbs.	
2	1	8				126.0 ft.	47 lbs.	
3	1 1/2	8						
4	2	9						
6	3	10						
							119.0 ft.	74 lbs.
							127.0 ft.	90 lbs.
							124.0 ft.	112 lbs.

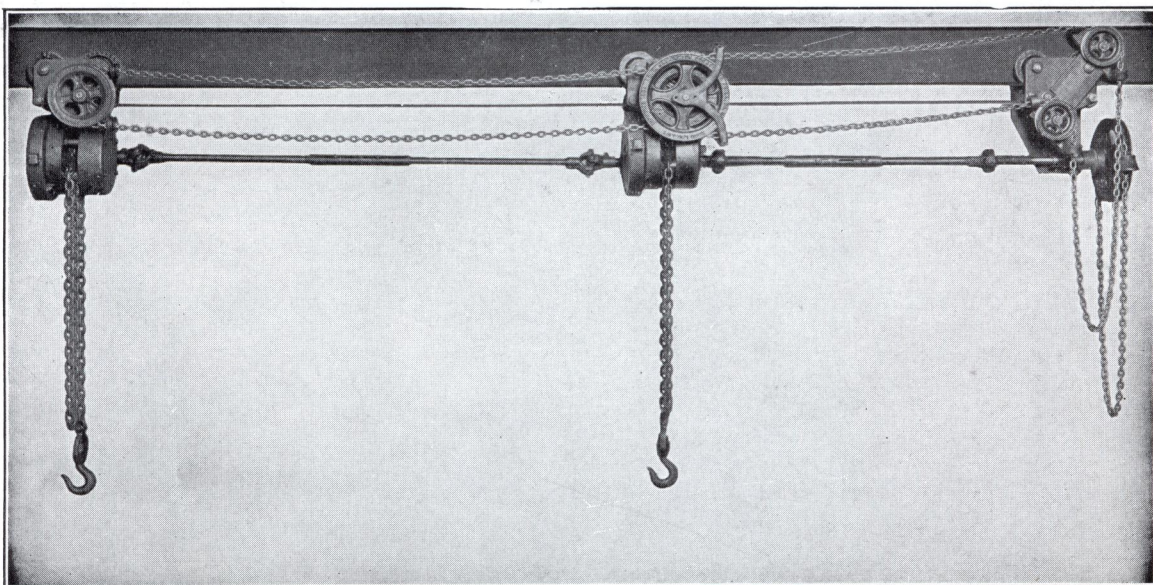


PEERLESS DOUBLE HOOK HOISTS

WITH SPECIAL FEATURES



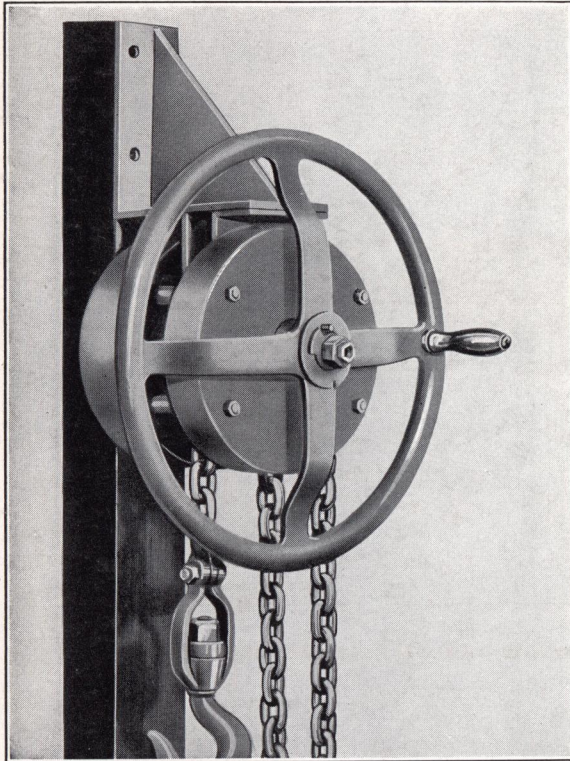
A DOUBLE HOOK PEERLESS HOIST COMBINED WITH TANDEM GEARED TROLLEYS



**A DOUBLE HOOK HOIST WITH EXTENDED POINT OF OPERATION
FOR BOTH HOIST AND TROLLEYS**

PEERLESS CHAIN WINCHES

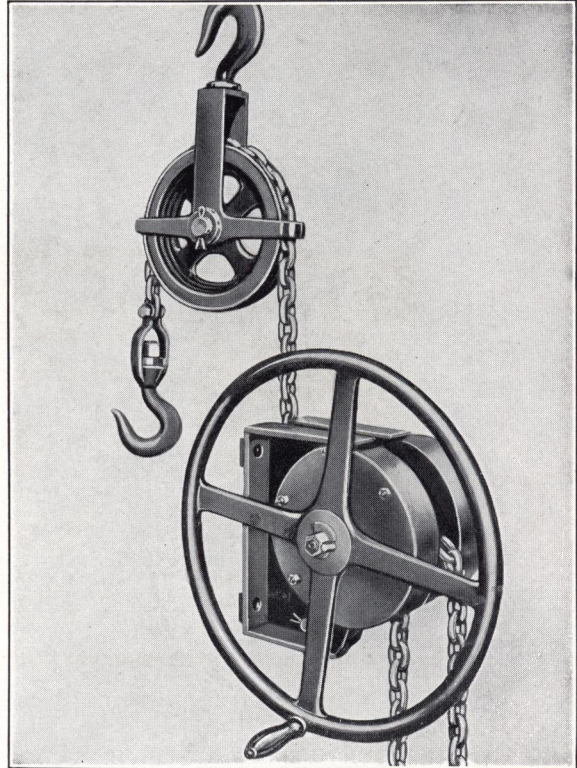
DIRECT LIFT TYPE



This type of winch consists of a regular Peerless Hoist unit mounted in a rigid manner on a wall bracket. When operated by the fly wheel and handle as shown above it should be mounted with the wheel center about 3' 6" from the floor. When the intended use requires a higher mounting position the winch should be operated by a hand chain and hand chain wheel. Equipment with fly wheel and handle or pendant chain of regular length is optional at the same price. Extra hand chain can be furnished at a small additional cost.

Special brackets can be furnished for attachment on a side wall instead of at the back as shown. Also the bracket can be omitted and angles can be furnished for supporting the winch from an overhead beam.

OVERHEAD LIFT TYPE



This winch permits pulling downward, or in from the rear or upward at an angle. The bracket is drilled for mounting against a vertical surface but can be altered for overhead support.

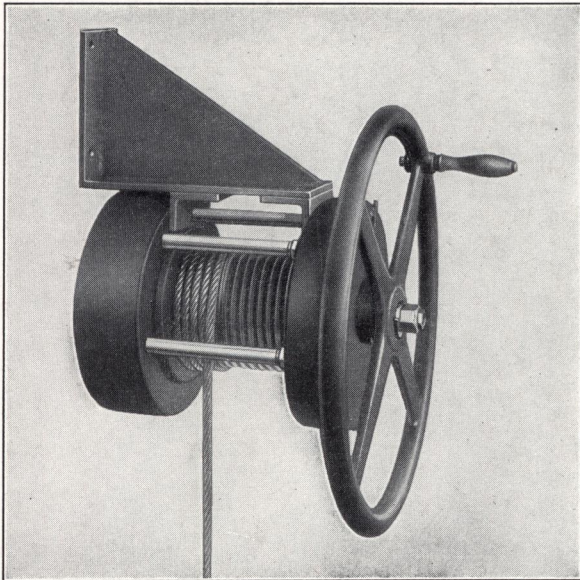
The overhead idler is not a part of the regular winch but can be furnished as required. Allowance should be made for the extra load chain needed to pass to and over an idler. If the idler is used the hook end must be kept loaded or weighted to keep the chain from becoming slack.

When located in high positions, the winch should be operated by hand chain instead of by the fly wheel as shown. Hand chain for regular lift will be furnished at the same price. For extra length, see next page.

Capac. in Gross Tons	Regular Lift in Feet	Price of Winch Regular Lift	Price of Extra Load Chain Per Foot	Deduct for Omission of Bracket	Net Weight in Lbs.
1/4	8	\$135.00	\$1.50	\$13.00	55
1/2	8	135.00	1.70	13.00	56
1	8	165.00	1.80	18.00	90
1 1/2	8	220.00	2.00	23.00	137
2	9	265.00	2.20	26.00	180
3	10	345.00	3.20	33.00	252

Capac. in Gross Tons	Regular Lift in Feet	Price of Winch Regular Lift	Price of Extra Load Chain Per Foot	Price of Idler Each	Net Weight in Lbs.
1/4	8	\$140.00	\$1.50	\$8.00	61
1/2	8	140.00	1.70	10.00	62
1	8	175.00	1.80	12.00	95
1 1/2	8	230.00	2.00	16.00	126
2	9	275.00	2.20	—	186
3	10	365.00	3.20	—	261

PEERLESS ROPE WINCH

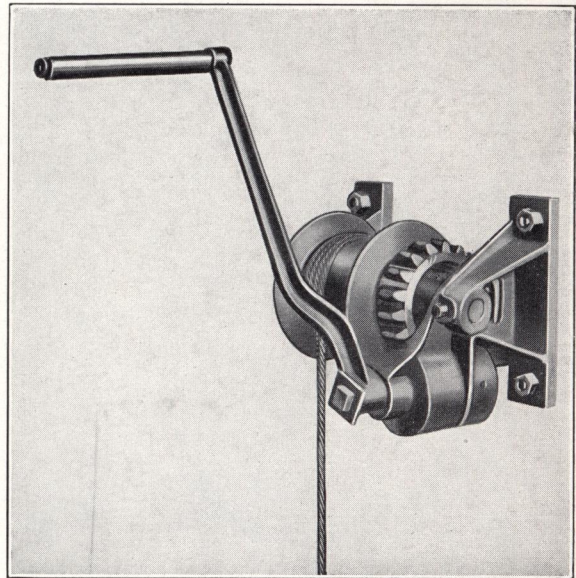


This winch is equipped with regular Peerless Hoist gearing and friction brake for operating a rope drum instead of a chain sheave. The frames are separated far enough to permit a drum that will hold the total lift of cable when wound in either two or three layers. A fly wheel and handle is the usual equipment because the winch should be mounted in a position where the rope can be guided, but a hand chain, sheave and chain guide can be substituted for the fly wheel if preferred. Peerless Winches can also be furnished with load chain instead of rope lift.

Winches are equipped with steel wall brackets. When idlers are required use a commercial light type wire rope block. The lifting cable is a special grade combining extreme flexibility with great strength.

Capac. in Gross Tons	Maxi- mum Lifting Dis- tance	Price Winch Bare	Size of Rope	Wire Rope Per Foot	Plain Hook Each	Swivel Hook Each
$\frac{1}{2}$	50 ft.	\$150.00	$\frac{1}{4}$ "	\$.42	\$2.40	\$9.00
1	50 ft.	200.00	$\frac{3}{8}$ "	.45	3.00	11.00
$1\frac{1}{2}$	50 ft.	235.00	$\frac{1}{2}$ "	.50	4.00	14.00
2	50 ft.	300.00	$\frac{5}{8}$ "	.55	5.40	17.60

SAFETY WALL WINCH



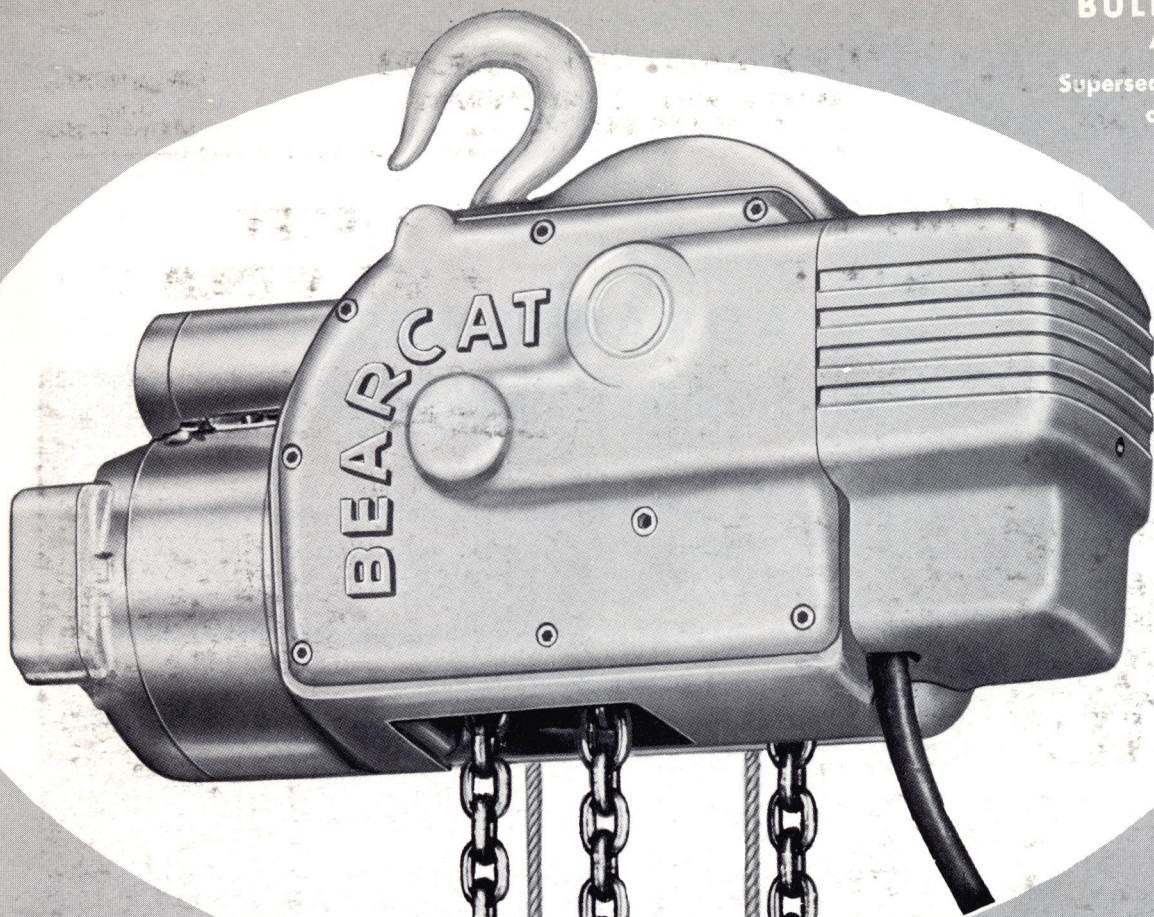
This is a handy and safe winch entirely satisfactory for many uses. It is worm geared and will hold the load in any position. The drum is smooth, has deep flanges and provision for fastening the rope end. Worm and gear are both machine cut. Crank is steel with a square hole drive.

Capacity in Tons	Rope Capacity of Drum	Price of Bare Winch Without Rope	Price of Rope Per Foot	Ratio of Gearing
$\frac{1}{4}$	75 ft. $\frac{1}{4}$ " dia.	\$60.00	\$.40	18 to 1
$\frac{1}{4}$	110 ft. $\frac{1}{4}$ " "	60.00	.40	18 to 1
$\frac{1}{4}$	250 ft. $\frac{1}{4}$ " "	60.00	.40	18 to 1
$\frac{1}{4}$	500 ft. $\frac{1}{4}$ " "	72.00	.40	18 to 1
$\frac{1}{2}$	250 ft. $\frac{1}{4}$ " "	80.00	.40	25 to 1
$\frac{1}{2}$	500 ft. $\frac{1}{4}$ " "	90.00	.40	25 to 1
$\frac{1}{2}$	550 ft. $\frac{1}{4}$ " "	95.00	.40	25 to 1
$\frac{3}{4}$	180 ft. $\frac{3}{8}$ " "	125.00	.42	30 to 1
1	180 ft. $\frac{3}{8}$ " "	180.00	.42	40 to 1
$1\frac{1}{2}$	110 ft. $\frac{1}{2}$ " "	250.00	.48	50 to 1

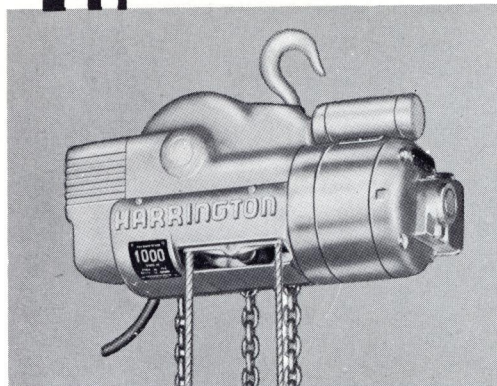
BULLETIN P-53

AUGUST 1, 1954

Superseding Bulletin P-53
of March 1, 1952



Harrington
BEARCAT
**ELECTRIC
HOIST**



ADVANTAGES OF THE BEARCAT ELECTRIC HOIST

Light in weight.

High efficiency, multiple-thread, initial worm drive and secondary spur gears for speed reduction.

Interchangeability of spur gears to obtain various hook speeds and load capacities.

Two brakes: Automatic screw-type holding brake and controller operated snubbing brake.

Anti-friction bearings throughout.

Conventional oval link, heat-treated, welded steel hoist chain—completely flexible—in length of lift to suit requirements.

Close head room.

Operating handle marked and shaped for easy recognition of up and down operation.

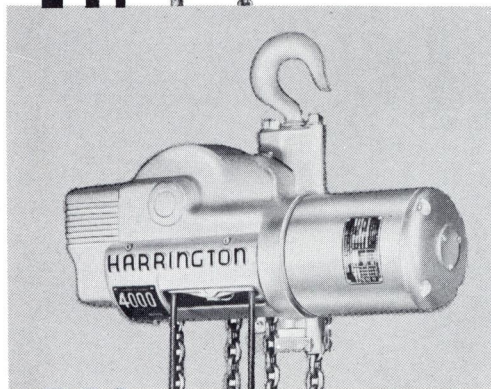
Balanced for hook suspension. Top hook, vertical stud or trolley suspension.

THE FRAME OF THE BEARCAT ELECTRIC HOIST

Light weight of the Bearcat Hoist is achieved through the use of Tenzaloy, a high tensile aluminum alloy. The main housing and covers, rope arm, operating handle, switch lever, brake lever and cover are cast of Tenzaloy, which is an aluminum-magnesium-zinc alloy that attains high strength by natural aging at room temperature. These castings provide a savings in weight of approximately forty pounds over ferrous metals. Through the use of Tenzaloy castings, machining and handling costs are reduced; and the appearance of the Bearcat is improved. In addition to these advantages, the hoist gearing, bearings and brake mechanism are carried in a constant bath of lubricant, and loss of lubricant is prevented by oil seals.

Photo at top of page shows 1 ton hoist.

Photo at bottom of page shows 2 ton hoist.



**CAPACITIES FROM 170 TO 4000 POUNDS
HOOK SPEEDS FROM 6 TO 50
FEET PER MINUTE**

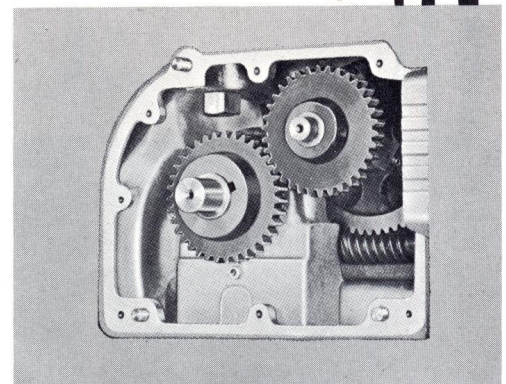
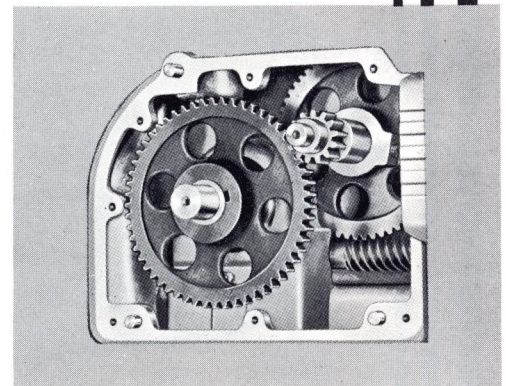
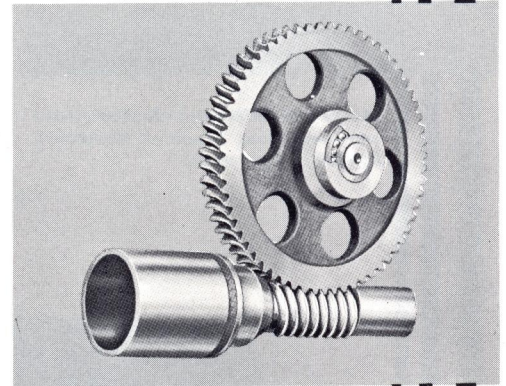
THE DRIVE OF THE BEARCAT ELECTRIC HOIST

A triple thread hardened worm, directly connected to the motor, drives a bronze worm gear. The worm runs in a radial and thrust ball bearing at the motor end. At the brake end, the worm runs in a roller bearing and is connected to the automatic brake. The worm gear shaft carries a spur pinion which drives a spur gear on the hardened load wheel shaft.

SPUR GEARS ARE INTERCHANGEABLE

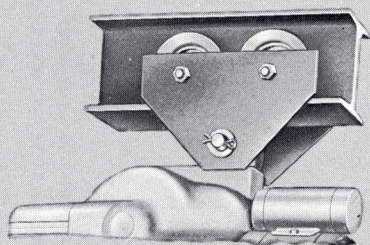
An advantageous and exclusive feature of the Bearcat Hoist is the interchangeability of spur gears—which permits you to obtain a desired hook speed and determines the capacity of your hoist. Six gear combinations and three models provide eighteen different combinations. Capacities and hook speeds obtainable are shown on top of page 8.

Here's an example of the advantage of being able to change gears: The Model RA Bearcat Hoist you purchased has gears to provide a hook speed of 17 feet per minute and a lifting capacity of 500 pounds. However, you find that you want to handle loads up to 700 pounds. All you have to do to get this capacity is to replace the 17 and 52 teeth gears with the 13 and 56 teeth gears and you have the desired capacity at a lifting speed of 12 feet per minute. Or, your load is only 250 pounds and you want more speed, just install 27 and 42 teeth gears and you get a hook speed of 34 feet per minute.

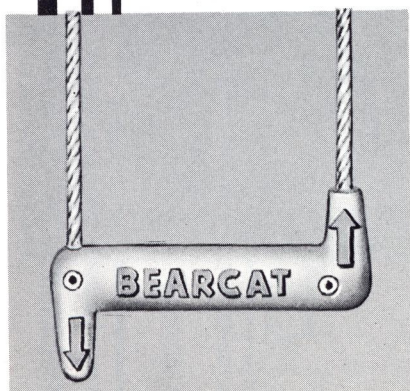
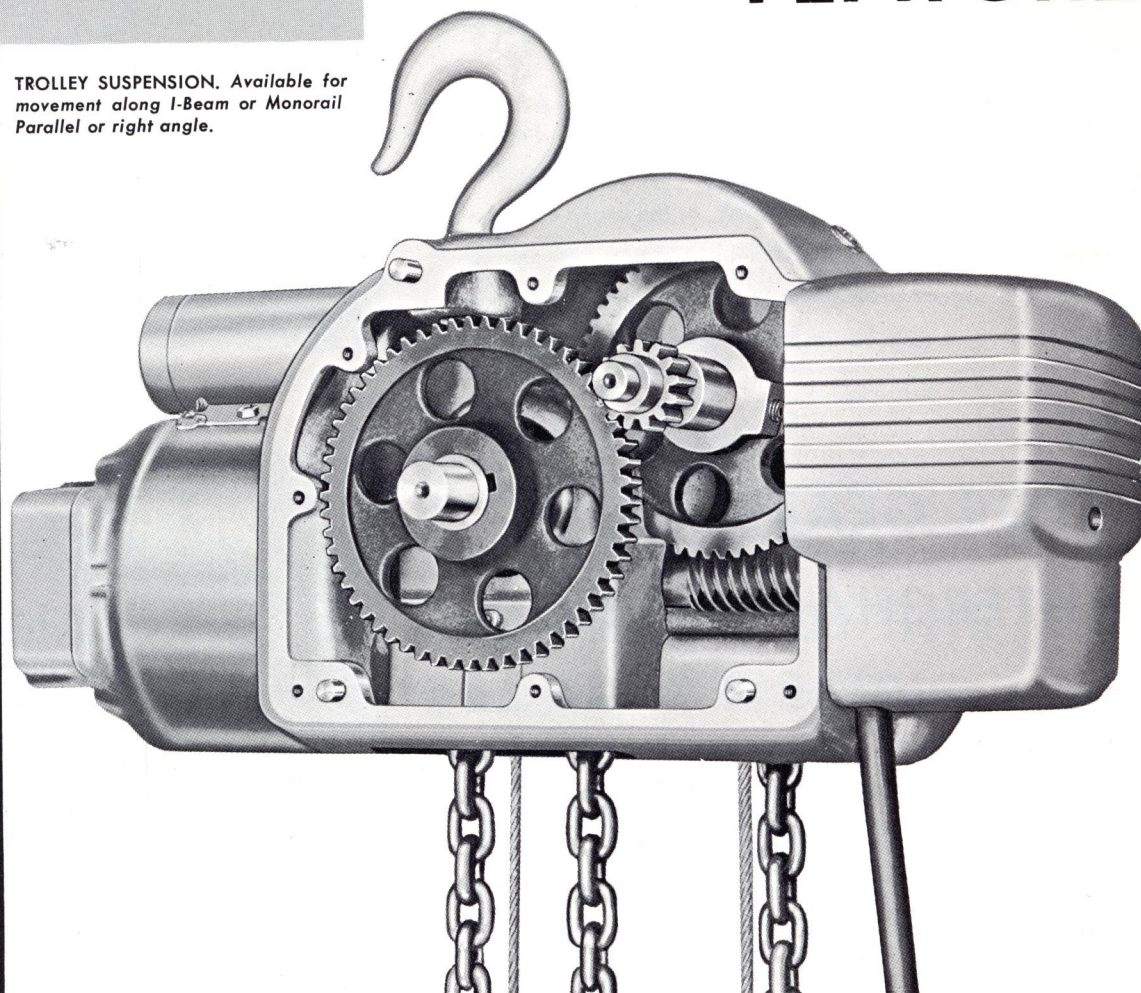


Check these

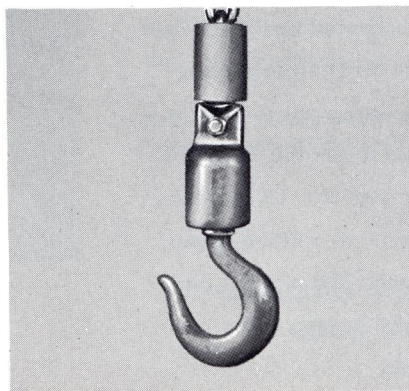
BEARCAT FEATURES



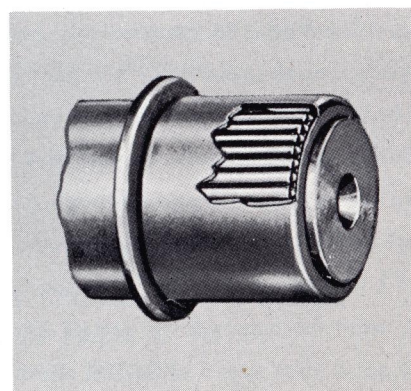
TROLLEY SUSPENSION. Available for movement along I-Beam or Monorail Parallel or right angle.



OPERATING HANDLE. Marked and shaped for easy recognition of up and down movement.

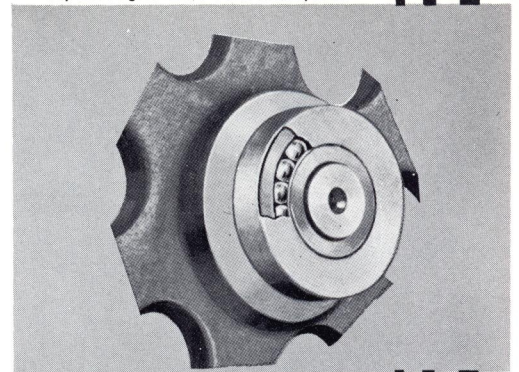


BOTTOM HOOK. A heat-treated drop forging, it is carried in a pressed steel swivel and provided with an enclosed ball thrust bearing for easy rotation.

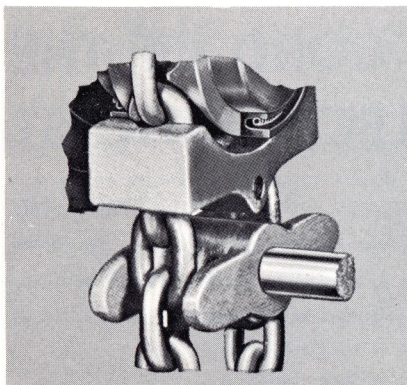
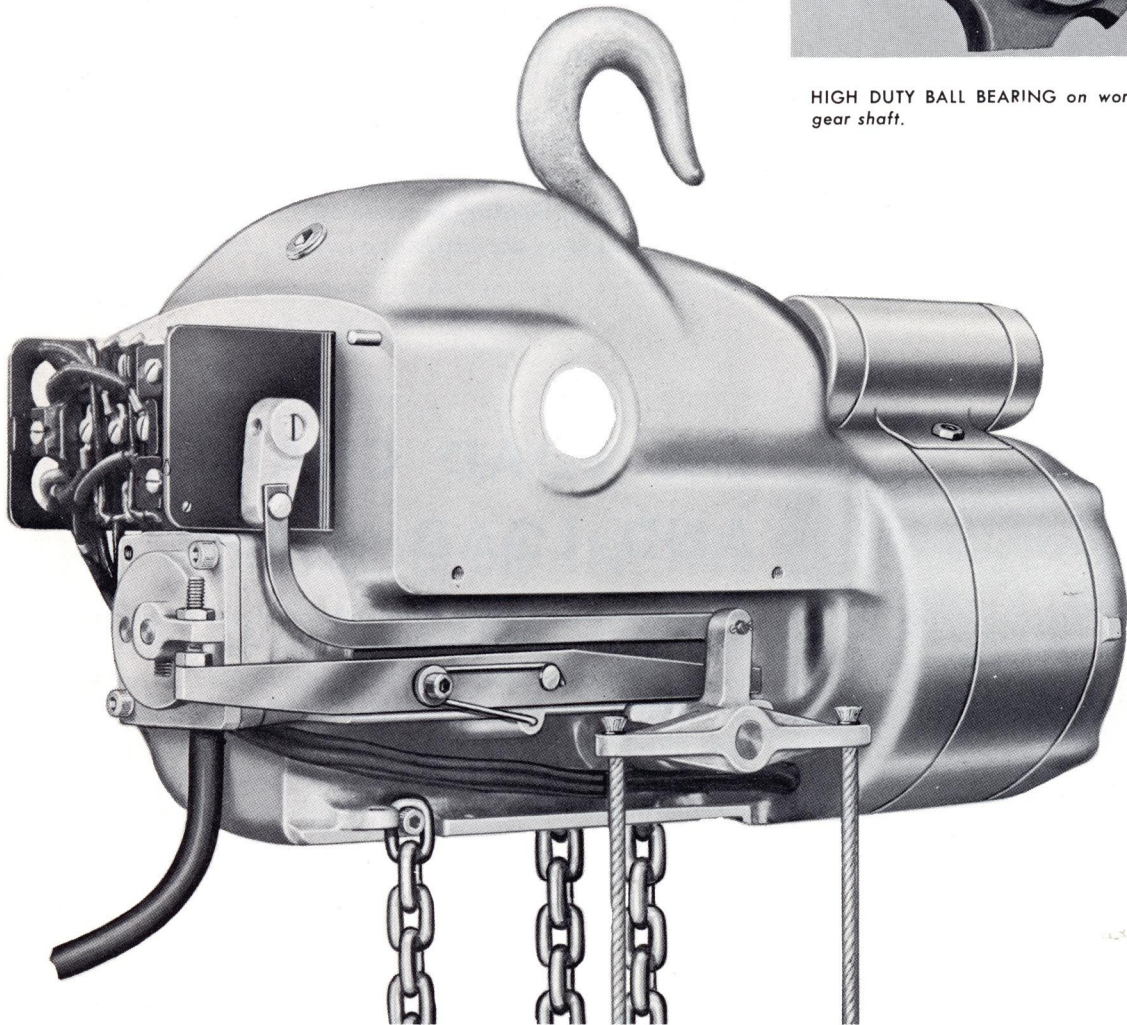


ROLLER BEARINGS. Located on both ends of the Load Wheel Shaft, to carry the direct load.

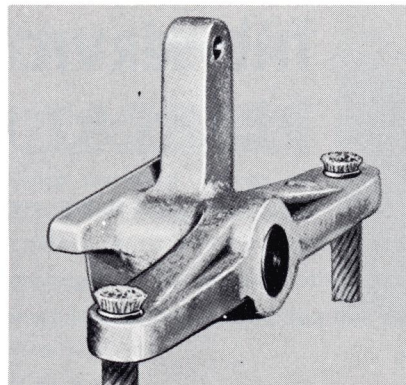
Superseding Bulletin P-53 of Mar. 1, 1952



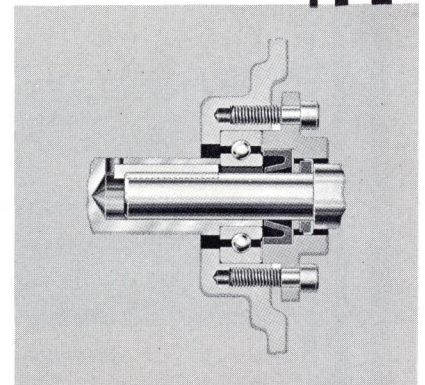
HIGH DUTY BALL BEARING on worm gear shaft.



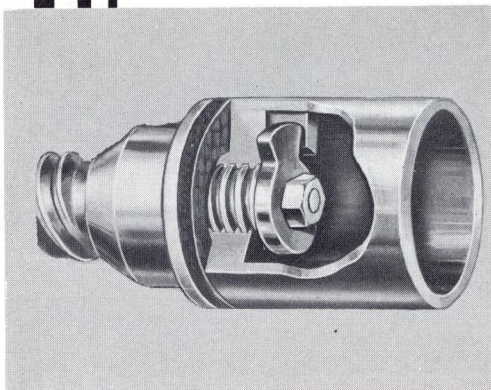
CHAIN GUIDE BLOCK and LIMIT LEVER. Limit Lever operates in both directions of hook travel.



ROPE ARM. Operates the controller and the snubbing brake.



ASSEMBLY of ball bearing, grease seal and thrust gland on drive from motor to worm.

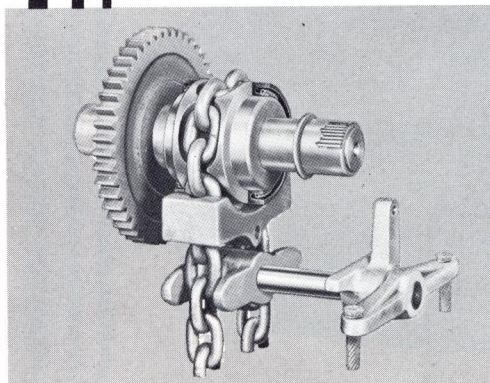


THE BRAKE SYSTEM OF THE BEARCAT HOIST

Harrington Bearcat Electric Hoists have two independent brakes for maximum safety and accurate load positioning. The primary or holding brake runs in oil, is completely automatic and self-adjusting, prevents further hook travel whenever the control switch is open or the power supply is interrupted. The secondary or snubbing brake is mechanically operated in unison with the rope arm and reversing drum switch and functions whenever the control is in neutral to cause rapid snubbing of all movement. This secondary brake is not necessary for sustaining a load, but it is advantageous in stopping accurately at any desired hook position.

THE LOAD CHAIN AND LOAD WHEEL

Load Chain—high carbon, heat-treated steel with oval links, electrically welded—has great strength and full flexibility in all directions. It runs on a steel load wheel surrounded by a channel guide that prevents twisting or disengagement of links from the load wheel pockets. Standard length of load chain permits ten feet of hook travel, but greater length of lift can be easily obtained—without disassembly of the hoist—by substituting a longer chain.



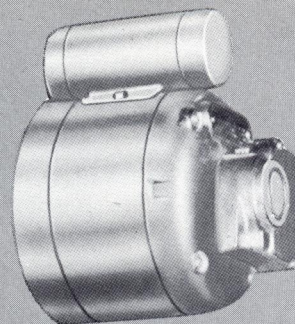
THE SERVICE CORD OF THE BEARCAT ELECTRIC HOIST

All Bearcat Hoists with single phase motors are supplied with 15 feet of 3 conductor, #14 service cord equipped with a two prong parallel attachment plug for standard outlets. The third wire, attached to the hoist frame, provides for a ground connection. Bearcat Hoists with polyphase motors are shipped with 15 feet of service cord without terminal plug.

THE MOTOR OF THE BEARCAT ELECTRIC HOIST

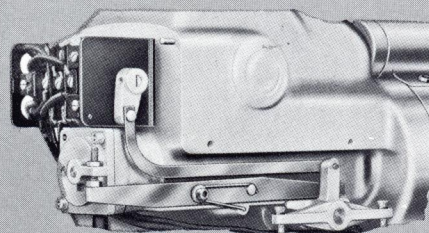
All motors used on the Bearcat Hoist are produced by nationally-known and thoroughly reliable manufacturers. They are of cast rotor, induction type.

Bearcat Hoists are equipped with either single or polyphase motors. Single phase motors, of capacitor type with a built-in relay to insure positive reversal, are available for 115 or 230 volt, 60 cycle current. Polyphase motors are available for 220, 440 or 550 volt, 60/50 cycle service. Motors for other than 60/50 cycle current, and for voltages not mentioned above can be furnished but the factory should be consulted for specific recommendations.



THE CONTROLLER IN THE BEARCAT ELECTRIC HOIST

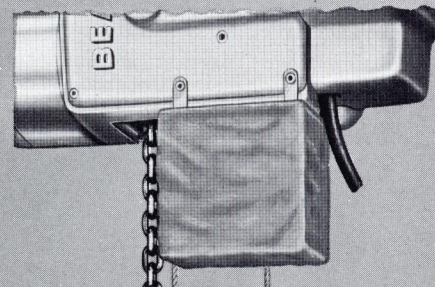
The controller in the Bearcat Hoist is of the drum type, and is of much larger capacity than would normally be required, to insure long, trouble-free service.



THE CHAIN CONTAINER OF THE BEARCAT HOIST

To hold slack loops of load chain a container is often required. The "Bearcat" Container is made of flexible material which is not permanently deformed when moving the hoist. It can be quickly attached to any hoist using existing bolt holes. The chain enters and leaves without kinking or snarling.

- Size A—for hook to travel up to 15'
- Size B—for hook to travel up to 25'
- Size C—for hook to travel up to 35'
- Size D—for hook to travel up to 45'

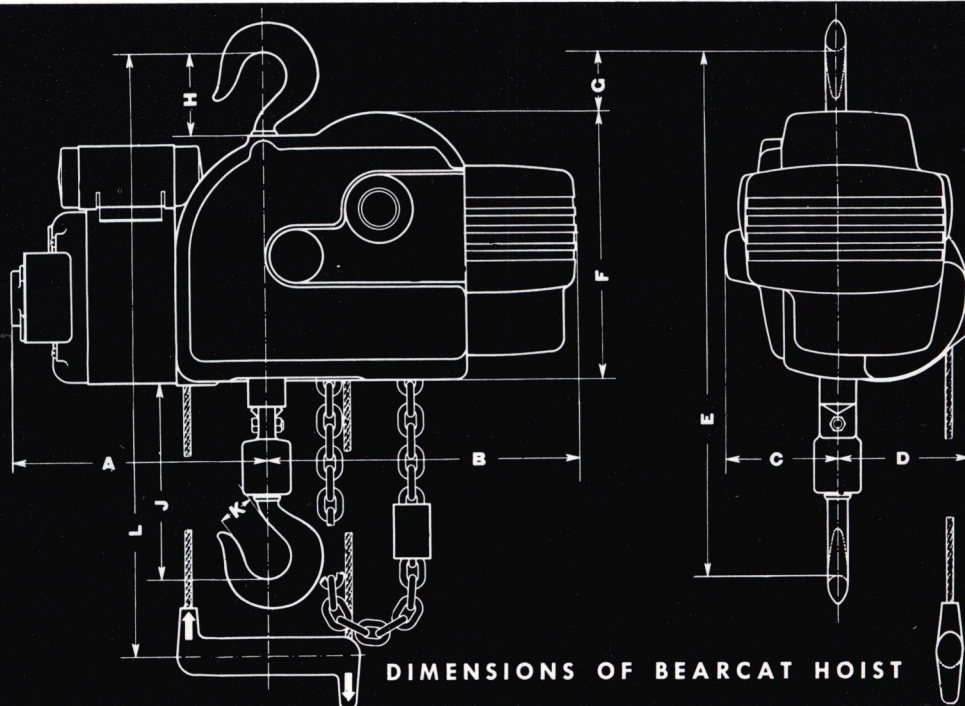


Hook Speed in Feet Per Minute	Lifting Capacity in Pounds Single Strand Load Chain				Hook Speed in Feet Per Minute	Lifting Capacity 2 Strands Load Chain		Gears Used
	Model RA ¼ H.P.	Model RC ½ H.P.	Model RD ¾ H.P.	Model RE 1 H.P.		Model RF ¾ H.P.	Model RG 1 H.P.	
12	700		2000		6	4000		13-56
17	500	1000	1500	2000	8½	3000	4000	17-52
24	350	700	1050	1400	12		2800	22-47
34	250	500	750	1000				27-42
*43	*200	*400	*600					31-38
*50	*170	*340	*500					34-35

*High speed hoists are not suitable for all applications and the factory should be consulted before ordering.

Unless otherwise specified, the Bearcat Hoist will be shipped with: top hook suspension; chain for 10' lift; 15' of service cord with attachment plug; and, 115 volt, 60 cycle single phase motor, except Models RE and RG which will be shipped with 220 volt, 3 phase, 60 cycle motor.

Three-phase and two-phase motors can be furnished for either 220 or 440, or 550 volt 60/50 cycle service. For other voltages and cycles, consult the factory. 220 volt, 60 cycle, single phase motor must be specified, if required.



DIMENSIONS OF BEARCAT HOIST

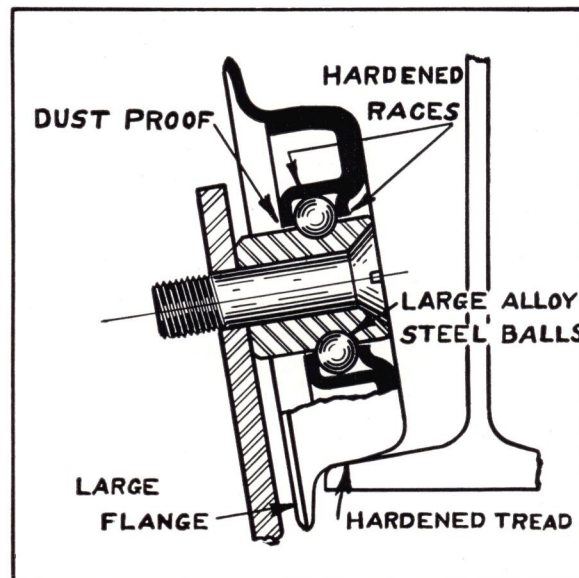
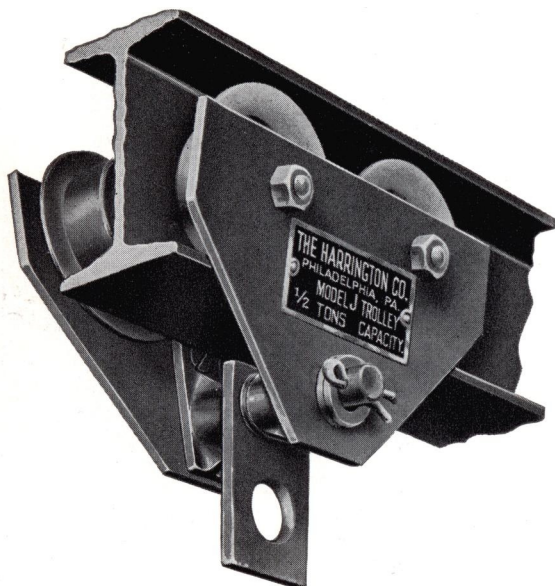
Model	Weight in Pounds	A	B	C	D	E	F	G	H	J	K	L
RA	79	8 7/8	11 1/4	4 1/8	4 3/4	18 3/4	9 5/8	2 1/8	3	7	1 1/8	6'6"
RC	82	9 1/4	11 1/4	4 1/8	4 3/4	18 3/4	9 5/8	2 1/8	3	7	1 1/8	6'6"
RD	93	11 1/4	11 1/4	4 1/8	4 3/4	19	9 5/8	2 1/8	3	7 1/4	1 1/4	6'6"
RE	97	11 1/4	11 1/4	4 1/8	4 3/4	19	9 5/8	2 1/8	3	7 1/4	1 1/4	6'6"
*RF	111	10 1/8	12 3/8	4 1/8	4 3/4	24 1/2	9 5/8	4	4 7/8	10 7/8	1 1/2	6'6"
*RG	115	10 1/8	12 3/8	4 1/8	4 3/4	24 1/2	9 5/8	4	4 7/8	10 7/8	1 1/2	6'6"

Bearcat Hoist combined with Trolley		Model J	Model F	Model D	Model C	Model N at 90°	Model N Parallel
Minimum Distance Beam to Hook	RA & RC	19 3/8	19 1/2	20 1/8	20	19 1/4	20 1/2
	RD & RE	20 3/8	20 3/8	20 3/8	20 1/4	19 1/2	20 3/4
	RF & RG			27 1/2	26 1/4		

*Models RF and RG are double load chain.

TROLLEYS

MODEL J FOR I BEAM



ROLLED STEEL FRAMES

PRESSED STEEL BALL BEARING
WHEELS

WHEEL TREADS HARDENED
ADJUSTABLE FOR WIDTH

The Model J all steel trolleys are made in two sizes, with frames and wheels of steel. They move with extreme ease, have a high factor of safety, and can be adjusted for various widths of beams. They are small but rugged, and light but strong, and are designed particularly for use on small sizes of I-beam track.

THE WHEELS are pressed from high carbon steel, are hardened throughout, and have single

row bearings with large diameter balls protected against the entry of dirt. The flanges are amply large to insure proper operation on curves. Each wheel takes its share of the load because of the flexible connection between side frames.

THE SIDE FRAMES are cut from steel plate and are reinforced at the bottom with steel sleeves to carry the full loads without deflection, and are free to swivel on a single pin of large diameter. The frames extend lengthwise as bumpers to protect against damage to wheels.

SPACING COLLARS are provided whose position can be changed to widen the trolleys for use on beams larger than the minimum sizes. Six of these collars permit widening by small steps to a total of 1 inch. Model J trolleys can be widened for use on even large beams by making special long pins and inside spacing collars at an extra charge.

For dimensions see page 3.

Capacity in Gross Tons	Usual Size of I-Beam	Adjustable for Beam Sizes *	Minimum Radius of Track Curve	Price of Trolley	Net Weight	Size of Box When Packed	Code Word
$\frac{1}{4}$ $\frac{1}{2}$	4"— 7.7 lb. 5"—10.0 lb. }	4" to 7"	18"	\$30.00	14 lbs.	$7\frac{3}{4}$ x 11 x $7\frac{1}{2}$	RIGITOS
$\frac{1}{1}$ $\frac{1}{2}$	6"—12.5 lb. 7"—15.3 lb. }	6" to 9"	24"	35.00	29 lbs.	$9\frac{1}{4}$ x $13\frac{1}{4}$ x $9\frac{3}{4}$	RIGITULE

* To fit beams larger than sizes shown, add \$5.00 or \$10.00 depending on beam width.

TROLLEYS FOR I BEAM

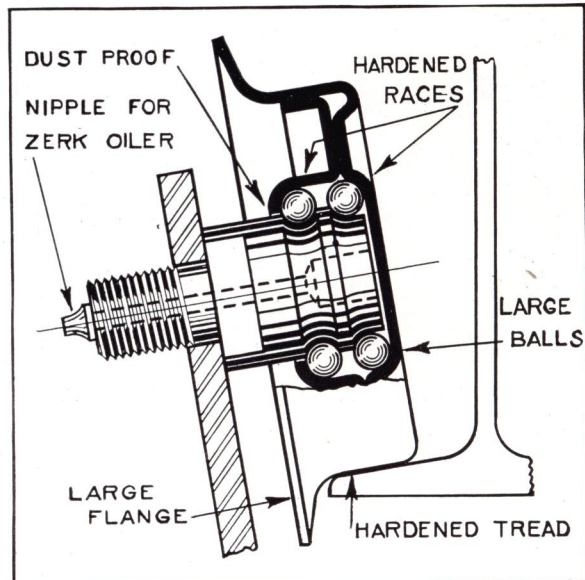
MODEL F



SOLID STEEL THROUGHOUT
BALL BEARING DUST PROOF WHEELS
GREASE GUN LUBRICATION
HARDENED WHEEL TREADS
ADJUSTMENT FOR WIDTH

The Model F all steel trolleys are made in two sizes, with all parts of steel. They move with extreme ease, have a large factor of safety, are easily lubricated, and can be adjusted for various widths of beams. They are small but rugged and light but strong, and are designed particularly for use on small sizes of I-beam track.

THE WHEELS are pressed from high carbon steel, are hardened throughout, and have double row bearings with large diameter balls protected against the entry of dirt by a felt washer, and provided with means for grease lubrication through the stud by a pressure grease gun. The flanges are amply large to insure proper operation



on curves. Each wheel takes its full share of the load because of the flexible connection between side frames.

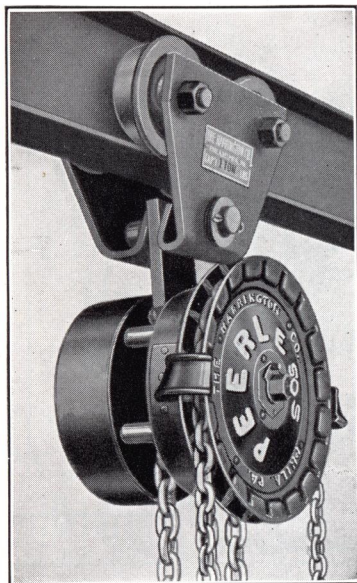
THE SIDE FRAMES are formed from single pieces of steel plate avoiding all use of castings attached by bolting or riveting. They carry full loads without deflection and are free to swivel on a single pin of large diameter. The frames extend lengthwise as bumpers to protect against damage to wheels.

SPACING COLLARS are provided whose position can be changed to widen the trolleys for use on beams larger than the minimum sizes. Six of these collars permit widening by small steps to a total of 1 inch. Model F trolleys can be widened for use on even large beams by making special long pins, and inside spacing collars at an extra charge.

Capacity in Gross Tons	Usual Size of I-Beam	Adjustable for Beam Sizes *	Minimum Radius of Track Curve	Price of Trolley	Weight		Size of Box	Code Word
					Net	Gross (Export only)		
1/4 1/2	4"—7.7 lb. 5"—10.0 lb.	4" to 7"	18	\$30.00	18	29	8 3/4 x 11 3/4 x 11 3/4	RIGITULUM
1 1 1/2	6"—12.5 lb. 7"—15.3 lb.		24	35.00	33	41	10 3/4 x 10 1/2 x 14 1/4	RIGIUNASSI

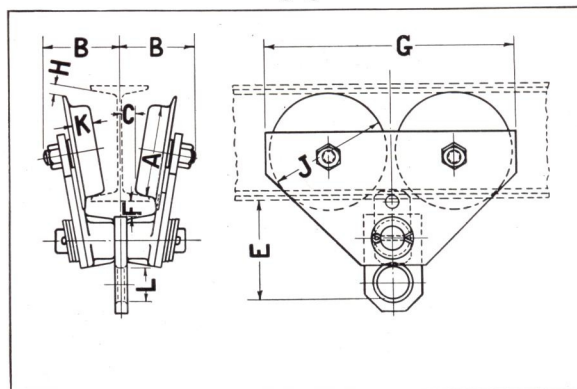
*To fit beams larger than sizes shown, add \$5.00 or \$10.00 depending on beam width.

COMBINED MODEL F TROLLEYS AND HOISTS



DIMENSIONS OF MODEL J TROLLEY

See page 1



Capacity in Gross Tons	A	B		C*	E	F	G	H*	J	K	L
		Min.	Max.								
1/4 and 1/2	3 3/8	2 7/8	3 3/8	1/2	4 3/16	7/8	9 1/4	1/4	4 1/8	7/8	1 1/8
1 and 1 1/2	4 1/8	3 3/4	4 5/8	1 1/8	5 1/8	7/8	11 1/2	1 1/8	5 3/8	1	1 3/4

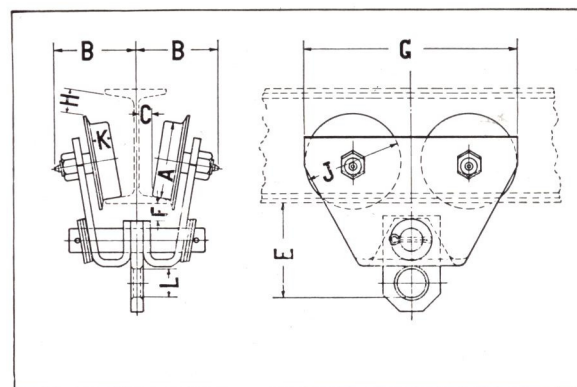
* Dimensions C and H are for smallest sizes of beam for each size of trolley.

Where close head room under the beam is desirable, Peerless hoists can be permanently combined with Model J or F trolleys by the use of a special link which replaces the regular top hook and swivel of the hoist.

Peerless Hoists when combined with Model J or F trolleys, hang with the hand wheel parallel to the line of track. When combined, the hoist cannot swivel with relation to the trolley.

For head room dimensions of hoists suspended from trolleys by hook, see page 10.

DIMENSIONS OF MODEL F TROLLEY



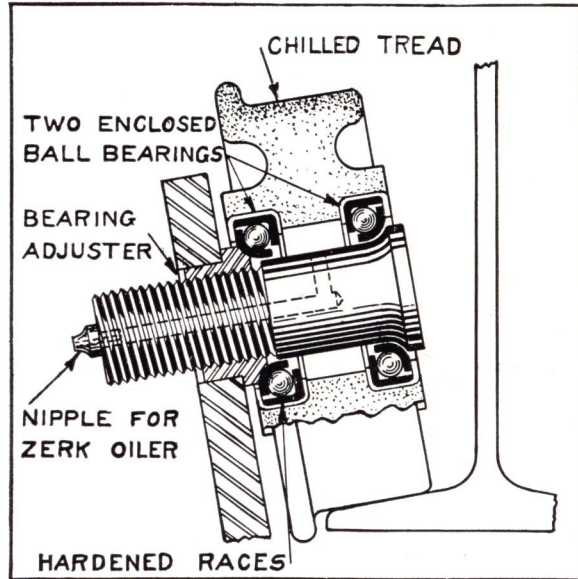
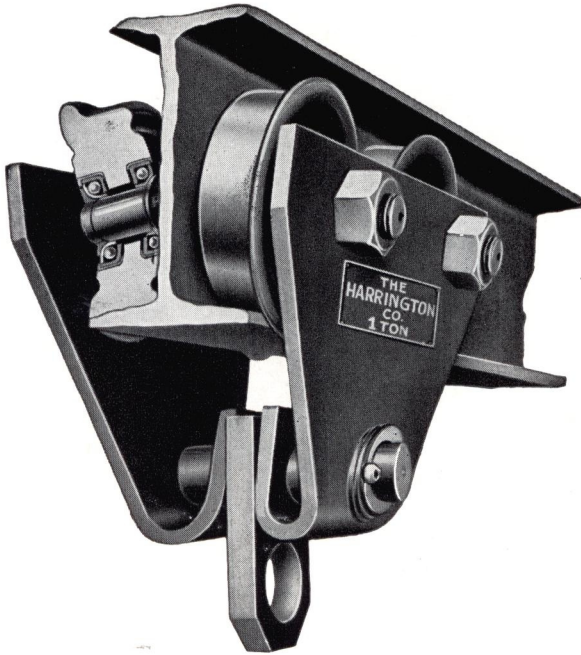
Capacity in Gross Tons	Minimum Distance Hook to Beam		Weight of Peerless Combination		Code Word
	With Peerless Hoist	With Screw Hoist	Net	Gross	
1/4	15"	16 1/8"	68 lbs.	90 lbs.	RIGIUNAVA RIGIUNERIA RIGLADIARI RIGLADIATA
1/2	15"	18 1/4"	69 lbs.	91 lbs.	
1	18 1/2"	19 3/4"	109 lbs.	140 lbs.	
1 1/2	20 3/8"	20 3/8"	139 lbs.	200 lbs.	

Capacity in Gross Tons	A	B		C*	E	F	G	H*	J	K	L
		Min.	Max.								
1/4 and 1/2	3 3/8	3 3/8	4 1/8	1/2	4 1/4	1	10	1/4	4 1/8	1 1/8	1 1/8
1 and 1 1/2	4	4 3/8"	4 7/8"	1 1/8	5	3/4	11 1/4	1 1/8	5	1	1 1/2

* Dimensions C and H are for smallest sizes of beam for each size of trolley.

TROLLEYS FOR I BEAM

MODEL D



PRESSED STEEL FRAMES
CHILLED WHEEL TREADS
TWO BEARINGS IN EACH WHEEL
GREASE GUN LUBRICATION
ADJUSTMENT FOR WIDTH

THE MODEL D is an extremely durable trolley with straight tread wheels, carried by inclined side frames so that all four wheels bear evenly on the flange of regular beams.

THE SIDE FRAMES are cut from heavy plate and have the lower ends bent inwardly, providing an ideal support for the link pin on which they can swivel to distribute the load to all the wheels. They extend beyond the wheels to prevent chipping of flanges from collisions.

THE WHEELS are accurately cast with hard chilled treads that run smoothly and easily, and

will last indefinitely without appreciable wear. Each wheel runs on two high duty chrome nickel steel ball bearings of the radial and thrust type, which permits easy operation of the trolley on straight track and around curves.

LUBRICATION is provided for by a grease nipple in the end of each stud through which lubricant can be applied by a pressure gun.

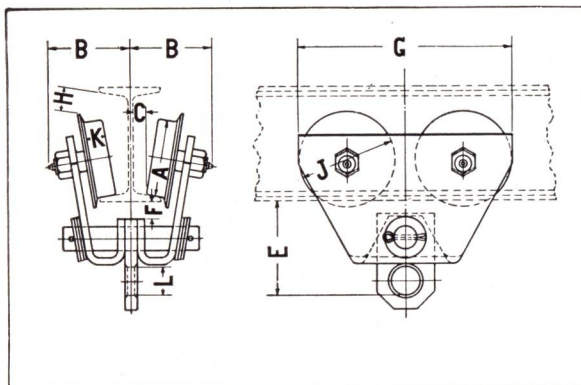
SPACING COLLARS are provided between the side plates and retaining cotter pins which can be moved to a position between the side plates and supporting link to widen the trolley for use on beams larger than standard. Six of these collars permit widening by small steps to a total of one inch. Trolleys can be widened for use on even larger beams by making special long pins and spacing collars at an extra charge.

TIMKEN BEARINGS ARE DESCRIBED ON PAGE 9.

Capacity in Gross Tons	Usual Size of I-Beam	Adjustable for Beam Sizes*	Minimum Radius of Track Curve	Price of Trolley		Weight		Code Word
				BALL BEARING	TIMKEN BEARING	Net	Gross (Export only)	
1/2	5"—10.0 lb.	5" to 8"	21"	\$45.00	\$60.00	38	48	RIGITELLO RIGITIFERE RIGITILLA RIGITINE
1	6"—12.5 lb.	6" to 9"	24"	57.00	75.00	49	59	
1 1/2	7"—15.3 lb.	6" to 9"	24"	67.00	85.00	49	59	
2	8"—18.4 lb.	8" to 12"	36"	90.00	110.00	90	114	

*To fit beams larger than sizes shown, add \$5.00 or \$10.00 depending on beam width.

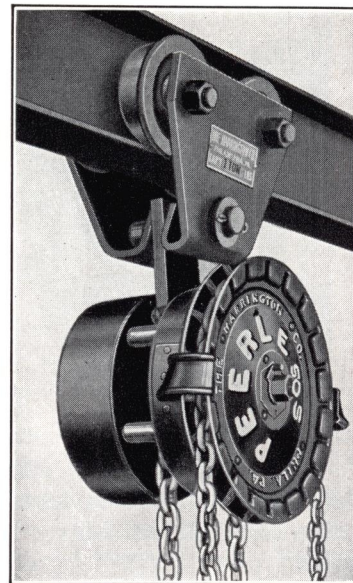
DIMENSIONS OF MODEL D TROLLEY



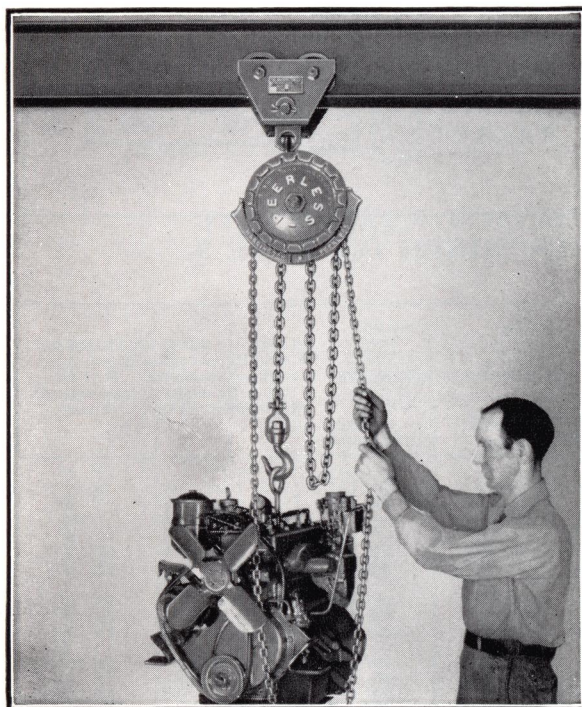
Capacity in Gross tons	A	B		C	E	F	G	H	J	K	L
		Min.	Max.								
1/2	3 3/8	4 1/4	4 3/4	7/8	5 1/2	1 1/8	11 1/4	1 1/8	4	1	1 3/4
1	4 3/8	4 1/4	4 3/4	7/8	5 1/2	1 1/8	12 1/8	1	5 1/4	1 1/4	1 3/4
1 1/2	4 3/8	4 1/4	4 3/4	7/8	5 1/2	1 1/8	12 1/8	1	5 1/4	1 1/4	1 3/4
2	5 7/8	5	5 1/2	7/8	7	1 1/8	15 1/4	1 7/8	6 5/8	1 3/8	1 3/4

* Dimensions C and H are for smallest sizes of beam for each size of trolley.

COMBINED MODEL D TROLLEYS AND HOISTS



FOR TIMKEN ROLLER BEARINGS SEE PAGE 9.



Instead of supporting a Peerless hoist from the trolley by the regular top hook entered into the large hole in the trolley link, it is often desirable to make a permanent connection to combine the two as one unit. For this arrangement, the top hook and swivel in the hoist and the link in the trolley are replaced by a combination link and stud to engage the hoist frames.

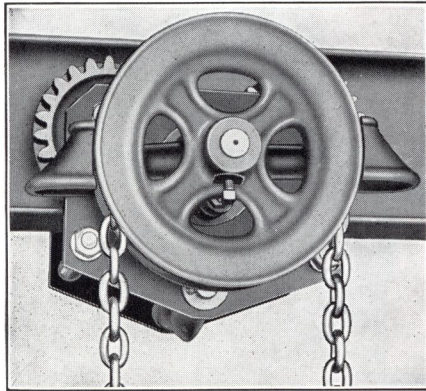
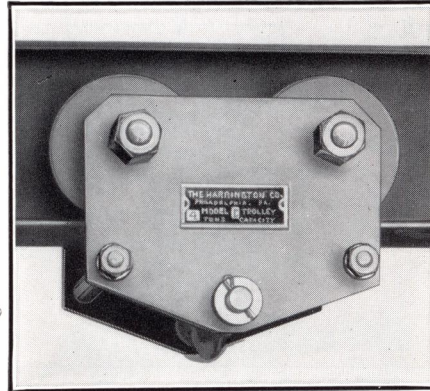
This combined arrangement allows the lifting hook to approach more closely to the beam than is permitted by the regular hook types.

For head room dimensions of hoists suspended from trolleys by hook, see page 10.

Capacity in Gross Tons	Minimum Distance Hook to Beam With Peerless Hoist	Weight of Peerless Combination		Code Word
		Net	Gross	
1/2	16"	84 lbs.	106 lbs.	RIGLOSSE RIGLOTTO RIGNABILIS RIGNABUNT
1	19 1/2"	125 lbs.	155 lbs.	
1 1/2	21"	155 lbs.	215 lbs.	
2	24 1/2"	233 lbs.	293 lbs.	

TROLLEYS FOR I BEAM

MODEL C

GEARED
TYPE
TROLLEYPUSH
TYPE
TROLLEY

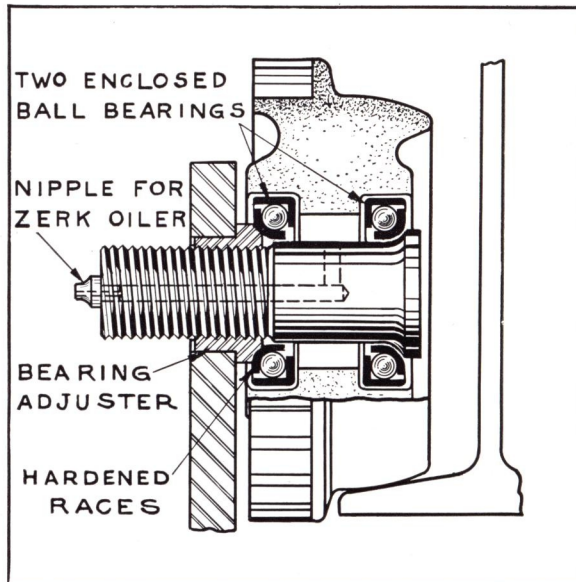
MODEL C TROLLEYS have straight side frames of rolled steel plate and curved tread wheels of large diameter, each equipped with two high duty alloy steel ball bearings providing very easy operation.

LUBRICATION is provided for by a nipple in each stud through which grease can be applied to the bearings with a grease gun.

ADJUSTING WASHERS are provided on connecting studs and hook bar so that the trolley can be widened for beams one inch wider than standard.

GEARED TROLLEYS have two wheels on one side driven by a cut steel pinion which is operated by a hand wheel and pendent chain.

COMBINATIONS of Model C Trolleys with Peerless Hoists for installations where close head-room is desired, are listed on pages 11.

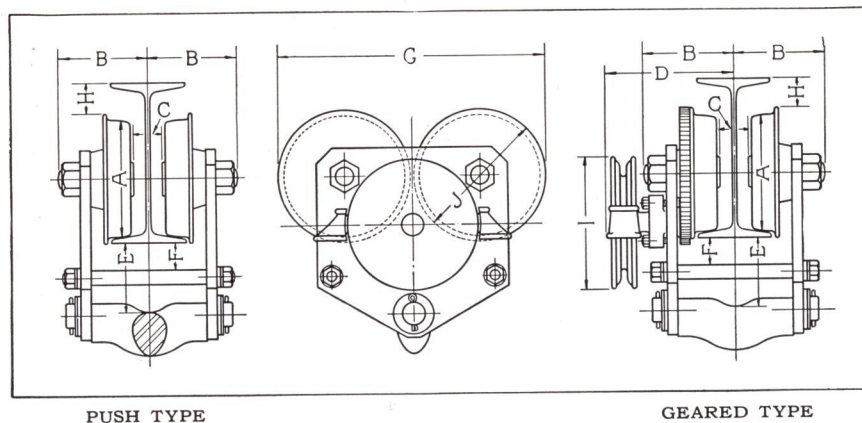


TIMKEN BEARINGS ARE DESCRIBED ON PAGE 9.

Capacity in Gross Tons	Smallest Size of I-Beam	Adjustable for Larger Beams*	Price of Trolley				Extra Hand Chain Per Foot of Height	Height of Beam from floor for regular hand chain
			BALL BEARING		TIMKEN BEARING			
			Push Type	Geared Traverse	Push Type	Geared Traverse		
1/2	5"	6, 7, 8	\$40.00	\$66.00	\$54.00	\$73.00	\$2.00	9' 4"
1	6"	7, 8, 9	52.00	87.00	70.00	117.00	2.00	9' 6"
1 1/2	7"	8, 9, 10	81.00	122.00	98.00	148.00	2.00	9' 9"
2	8"	9, 10, 12	90.00	140.00	110.00	175.00	2.00	11' 0"
3	9"	10, 12, 15	115.00	165.00	140.00	200.00	2.00	12' 3"
4	10"	12, 15, 18	150.00	206.00	194.00	265.00	2.00	12' 8"
5	12"	15, 18, 20	200.00	266.00	230.00	305.00	2.00	15' 0"
6	12"	15, 18, 20	260.00	340.00	300.00	385.00	2.00	15' 2"
8	15"	18, 20	380.00	495.00	470.00	610.00	2.00	15' 8"
10	15"	18, 20	460.00	580.00	515.00	650.00	2.00	15' 10"
15	15"	To Order	650.00	790.00	740.00	875.00	2.00	17' 2"
20	15"	To Order	1050.00	1200.00	1240.00	1420.00	2.00	17' 9"

* To fit beams larger than sizes shown, refer to page 8.

DIMENSIONS OF MODEL C TROLLEYS

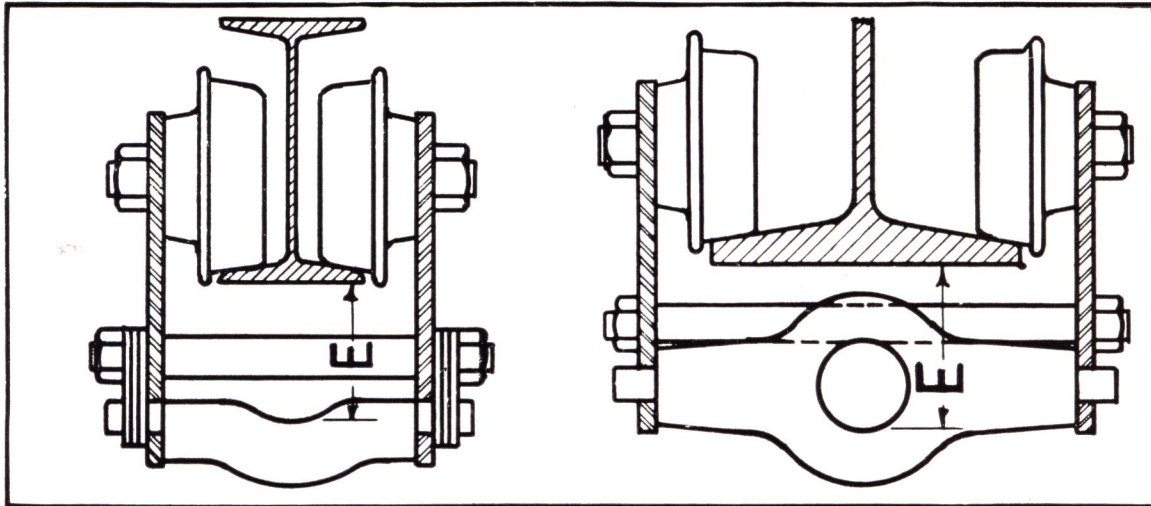


Capacity in Gross Tons	A	B		C	D	E	F	G	H	I	J
		Min.	Max.								
1/2	3 3/8"	4 3/8"	4 7/8"	1"	7 3/8"	3"	1 1/8"	10 1/4"	1"	6"	4 1/4"
1	4 1/4"	5"	5"	1 3/8"	7 1/2"	3"	1 1/8"	11 5/8"	1 1/8"	8 1/4"	5"
1 1/2	4 3/4"	4 1/4"	5 1/2"	1 3/4"	7 5/8"	3 3/4"	1 5/8"	12 3/4"	1 1/2"	8 1/4"	5 5/8"
2	5 5/8"	5 3/8"	5 3/4"	1 5/8"	7 7/8"	3 1/2"	1 3/4"	14 3/4"	1 5/8"	8 1/4"	6 5/8"
3	6 1/2"	5 5/8"	6 1/8"	1 3/4"	8"	4 3/8"	2 1/4"	15 3/4"	1 5/8"	8 1/4"	7 1/2"
4	7 3/8"	5 5/8"	6 3/8"	2 1/8"	8 1/4"	4 3/8"	1 3/4"	17 3/8"	1 7/8"	8 1/4"	8 1/4"
5	8 1/8"	6 1/2"	7"	2 3/8"	10"	4 7/8"	2"	18 3/4"	2 7/8"	11 1/2"	9 1/4"
6	8 1/8"	6 1/2"	7 1/8"	2 3/8"	10"	5 3/4"	2 1/4"	18 3/4"	2 7/8"	11 1/2"	9 1/4"
8	11"	7 1/2"	7 3/4"	1 7/8"	10 1/4"	4 5/8"	1 3/4"	25 3/4"	2 3/4"	11 1/2"	12 1/2"
10	11"	7 1/2"	7 3/8"	1 7/8"	10 1/4"	4 5/8"	1 3/4"	25 3/4"	2 3/4"	11 1/2"	12 1/2"
15	12 1/2"	9 1/4"	....	3 1/4"	11 1/2"	6 3/8"	1 5/8"	28 3/8"	1 1/8"	11 1/2"	14"
20	12 1/2"	9 1/4"	....	3 1/8"	11 1/2"	6 3/8"	1 5/8"	28 3/8"	1 1/8"	11 1/2"	14"

FOR TIMKEN ROLLER BEARINGS SEE PAGE 9.

Capacity in Gross Tons	Minimum Radius of Track Curve, in inches	Feet of chain to move 12 inches	Pull on hand chain to move full load, in pounds	Weights				Code Words for Ball Bearing Trolley	
				Push Type		Geared Type			
				Net	Gross (Export only)	Net	Gross (Export only)	Push Type	Geared Type
1/2	24"	3' 3"	15	35 lbs.	47 lbs.	55 lbs.	75 lbs.	RIASAPONIO	RIASPASME
1	27"	3' 0"	20	44	56	72	92	RIASCANE	RIASPHAGE
1 1/2	33"	3' 2"	35	68	88	96	122	RIASCEVE	RIASPINEL
2	42"	3' 2"	55	76	96	105	136	RIASCHISMA	RIASTALTIC
3	48"	3' 0"	65	115	139	144	176	RIASCORDIO	RIASTASE
4	78"	3' 0"	75	124	147	159	191	RIASEBESTO	RIASTATOPS
5	84"	4' 5"	80	178	224	215	267	RIASEMIE	RIASTEATON
6	84"	4' 6"	75	194	240	234	287	RIASMYRNE	RIASTEMATI
8	144"	4' 6"	70	354	428	411	487	RIASMYRNON	RIASTICTE
10	144"	4' 6"	80	354	428	421	497	RIASOSTICA	RIASTOLEIS
15	144"	4' 6"	120	720	870	760	920	RIASTREMMO	RIASTOLEUM
20	144"	4' 6"	160	760	910	800	960	RIASTROFIA	RIASTOLICO

MODEL C TROLLEYS ON LARGE BEAMS



HOOK BAR 61A

HOOK BAR 61X

Model "C" Trolleys of stock sizes are equipped with adjusting washers on both outer ends of the hook bar and connecting studs. By changing one or more of these washers to positions inside of the frames, the trolley can be adjusted in width to run on beam flanges up to one inch wider than standard.

For greater increase in flange width the eye type of hook bar, pc. 61X must be used.

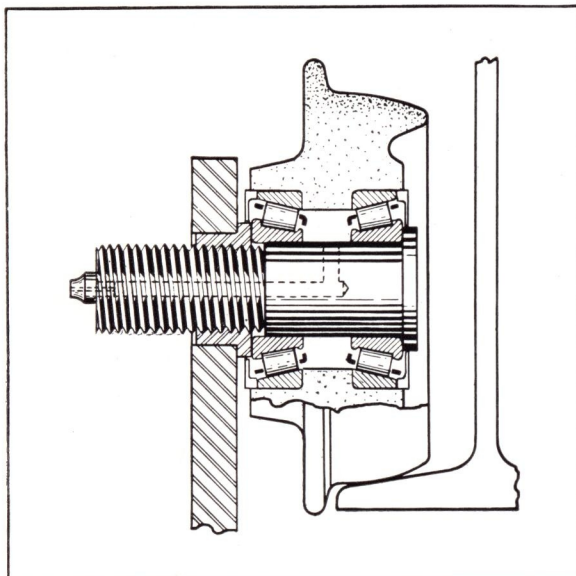
Refer to the data below for the maximum flange width for each condition.

Model "C" Trolley wheels are regularly made with curved treads to match the inclined surface of I-beam flanges. In many cases where beams have flat flanges wheels with straight treads can be substituted.

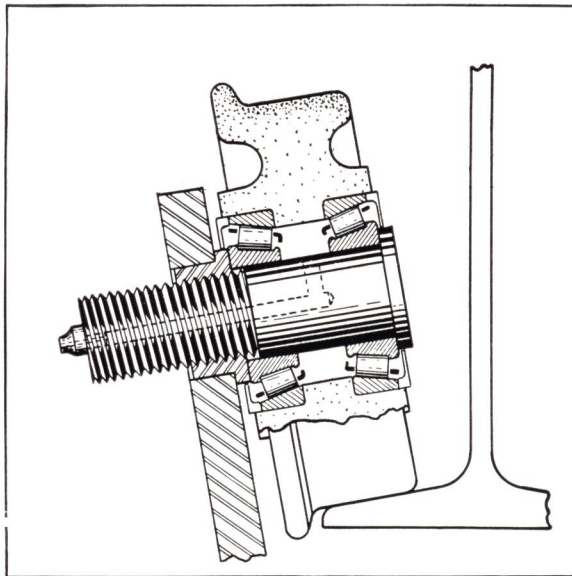
Dimension "E" will vary for different flange thicknesses.

Capacity in Gross Tons	Stock Trolleys With 61A or 61B Hook Bar Range of Flange Width	E	With Bar 61X Eye Pattern	
			\$15.00 Above List	E
1/2	3" to 4"	3"	13 7/8" maximum flange width	3 1/2
1	3.33" to 4.33"	3"	13 7/8" maximum flange width	3 7/8
1 1/2	3.66" to 4.66"	3 3/4"	13 3/8" maximum flange width	4 3/4
2	4" to 5"	3 1/2"	13 3/8" maximum flange width	5
3	4.33" to 5.5"	4 3/4"	13" maximum flange width	6 1/2
4	4.66" to 6"	4 3/8"	13" maximum flange width	6
5	5" to 6.25"	4 7/8"	12 5/16" maximum flange width	6 5/8
6	5" to 6.25"	5 3/4"	12 5/16" maximum flange width	7 5/8
8	5.5" to 6.25"	4 5/8"	12 1/16" maximum flange width	8 1/2
10	5.5" to 6.25"	4 5/8"	12 1/16" maximum flange width	8 1/2

TIMKEN ROLLER BEARINGS IN MODELS C AND D TROLLEYS



MODEL C



MODEL D

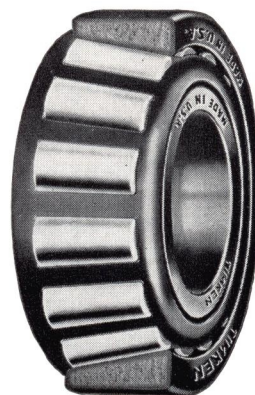
When trolleys are to be operated continuously or for long periods, it is often advisable to have the wheels equipped with Timken Tapered Roller Bearings. In this type of bearing the rollers have line contact with the hardened and ground inner and outer races and will outlast the ball bearings with which both Model C and Model D Trolleys are regularly equipped. The longer life of Timken Bearings and their greater resistance to wear is made possible by the combination of line contact of the component parts, tapered design, positively aligned rollers, accuracy of manufacture and special analysis steel.

The bores of the wheels and the dimensions of the studs and collars are different from those for ball bearings. Therefore, old wheels and studs cannot be used but a Timken equipped assembly of wheels and studs will interchange with the ball bearing assembly.

Adjustment is provided for taking up the slight wear which may occur after long use and provision is made for grease lubrication with a pressure gun.

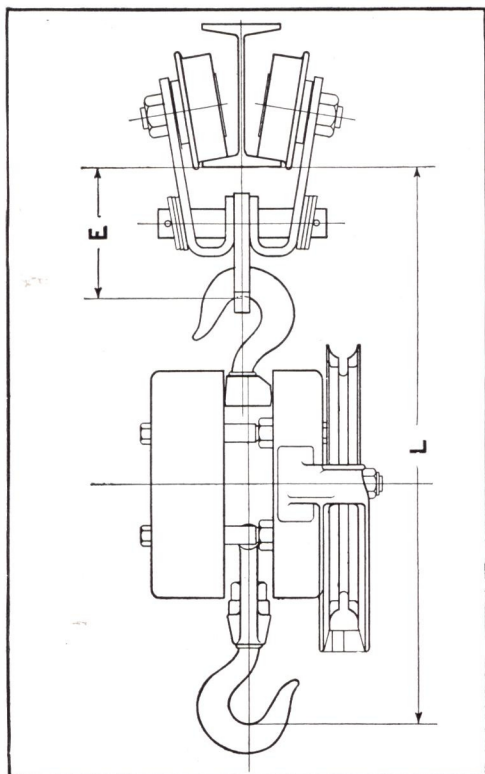
Timken equipped trolleys cost more than ball bearing trolleys. Use the Timken list prices on

pages 4 and 6 and apply the discount. Extra charges for wider than standard trolleys when required and extra lengths of hand chain must be added to the list prices before taking the discount.

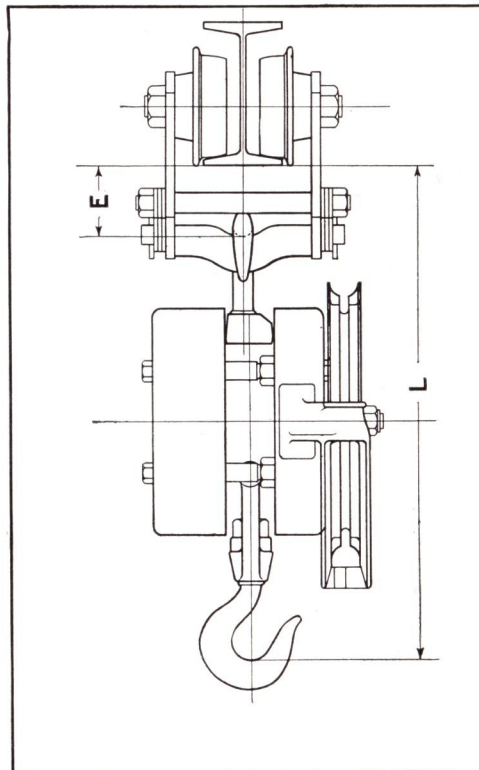


TIMKEN
TAPERED ROLLER BEARINGS

PEERLESS HOISTS HUNG ON TROLLEYS



WITH MODEL F OR D TROLLEY



WITH MODEL C TROLLEY

When the height of the I-beam above the floor will permit it is often desirable to use regular Peerless Hoists suspended from trolleys by the

top hook. Permanent combinations of hoists and trolleys for close head room conditions are shown on previous pages.

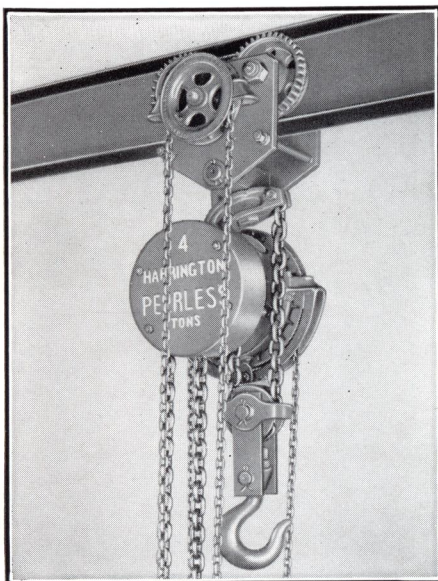
Capacity in Gross Tons	Regular I-Beam	Distance Between Hooks of Peerless Hoist	Peerless Hoists with Top Hook Suspended from							
			Model J Trolley		Model F Trolley		Model D Trolley		Model C Trolley	
			E	L	E	L	E	L	E	L
$\frac{1}{4}$ $\frac{1}{2}$ 1	4"—7.7 lb.	13 $\frac{1}{2}$	4 $\frac{5}{8}$	17 $\frac{3}{4}$	4 $\frac{1}{4}$	18	...	...	...	...
	5"—10.0 lb.	13 $\frac{1}{2}$	4 $\frac{5}{8}$	17 $\frac{3}{4}$	4 $\frac{1}{4}$	18	5 $\frac{5}{8}$	19 $\frac{5}{8}$	3	16 $\frac{1}{2}$
	6"—12.5 lb.	17	5 $\frac{5}{8}$	22 $\frac{5}{8}$	5	22 $\frac{3}{4}$	5 $\frac{5}{8}$	23 $\frac{5}{8}$	3	20
1 $\frac{1}{2}$ 2 3 S 3 D 4 5 6	7"—15.3 lb.	19	5 $\frac{5}{8}$	24 $\frac{5}{8}$	5	24 $\frac{3}{4}$	5 $\frac{5}{8}$	25 $\frac{5}{8}$	3 $\frac{3}{4}$	22 $\frac{3}{4}$
	8"—18.4 lb.	21	...	...	...	...	6 $\frac{1}{8}$	29 $\frac{5}{8}$	3 $\frac{1}{2}$	24 $\frac{1}{2}$
	9"—21.8 lb.	24 $\frac{1}{2}$	...	...	...	...	...	...	4 $\frac{3}{4}$	29 $\frac{1}{4}$
	9"—21.8 lb.	27 $\frac{1}{4}$	...	...	...	...	...	...	4 $\frac{3}{4}$	32
	10"—25.4 lb.	34 $\frac{1}{4}$	...	...	...	...	...	...	4 $\frac{3}{8}$	38 $\frac{3}{8}$
	12"—31.8 lb.	38 $\frac{1}{8}$	...	...	...	...	...	...	4 $\frac{7}{8}$	43 $\frac{3}{8}$
8 10 15 20	12"—31.8 lb.	40 $\frac{1}{2}$	...	...	...	...	...	...	5 $\frac{3}{4}$	46 $\frac{1}{4}$
	15"—42.9 lb.	46	...	...	...	...	...	...	7	53
	15"—42.9 lb.	49 $\frac{1}{4}$	...	...	...	...	...	...	7	56 $\frac{1}{4}$
	24"—79.9 lb.	59	...	...	...	...	...	...	6 $\frac{3}{8}$	65 $\frac{3}{8}$
	24"—79.9 lb.	61 $\frac{1}{2}$	...	...	...	...	...	...	6 $\frac{3}{8}$	67 $\frac{1}{8}$

Refer to separate bulletin for dimensions of Peerless Hoists and to previous pages for other dimensions of the several trolleys. Dimensions E and L will be less if trolleys are widened to run on larger beams.

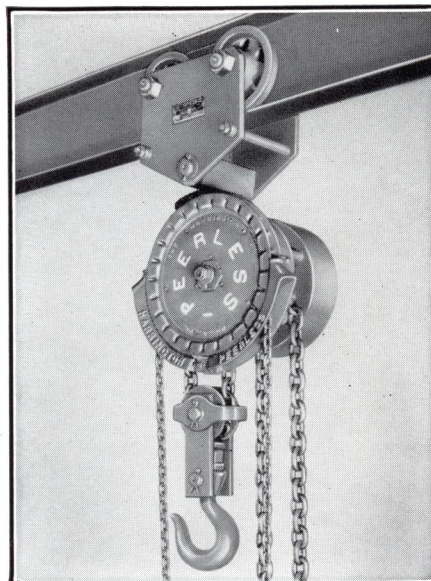
Model C trolleys on certain wide beams use type 61X hook bar. Refer to page 8 for flange width limits.

COMBINED MODEL C TROLLEYS AND HOISTS

4 TON
PEERLESS
HOIST AND
GEARED
TYPE
MODEL C
TROLLEY



4 TON
PEERLESS
HOIST AND
PUSH
TYPE
MODEL C
TROLLEY



PERMANENT COMBINATIONS of I-beam trolleys with Peerless Hoists, permit the hoist load hook to approach closer to the beam than when the hoist is suspended from the trolley by the regular top hook.

SUCH COMBINATIONS are very desirable for use on the beams of travelling and jib cranes and on overhead tracks, where it is not necessary to detach the hoist for use in other places. The hoist can be held in the same rigid and relative position to the trolley so that the operator has little chance for confusion between the traversing

chains and hoisting chains. Both geared and push trolleys may be combined with Peerless Hoists.

THE TROLLEYS in this arrangement can be widened to suit beams larger than standard in the same manner as the separate trolleys. All parts except the combined yoke in both hoist and trolley are the same as in the standard hook suspension types. Principal dimensions of hoists and trolleys are given on the pages that describe these articles separately. Other information not shown will be given upon request.

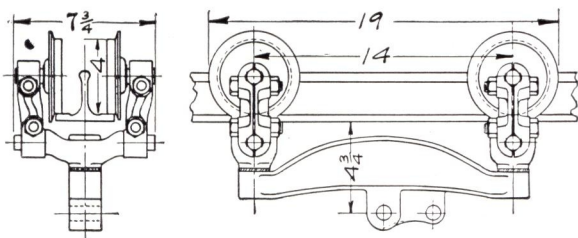
PEERLESS HOISTS WITH PUSH TYPE AND GEARED TYPE MODEL C TROLLEYS

The price of any combination is obtained by adding the separate prices of hoist and trolley. No extra charge for Combined Construction, also known as Clevis Type.

Specify beam size if not in the standard range and add "Timken" to code word if that type of bearings is wanted.

Capacity in Gross Tons	Regular Lift in Feet	Shortest Distance From Hook to Beam	Code Words	
			Plain Ball Bearing	Geared Ball Bearing
1 1/2	8	15 7/8"	RIBALABO	RIBLATHAIM
1	8	19 9/16"	RIBALABUNT	RIBOCCASSE
1 1/2	8	22 1/16"	RIBAPHI	RIBOCCHI
2	9	23 7/8"	RIBAPHORUM	RIBOSCANDO
3	10	29 3/8"	RIBAPHUM	RIBOSCASSI
4	10	34 1/4"	RIBAPTISTE	RIBOTHRIAN
5	12	38 3/4"	RIBARADANE	RIBOTASSE
6	12	41 1/8"	RIBASTASSE	RIBOTTEREI
8	12	47 1/4"	RIBASTERIE	RIBRAMCHE
10	12	49 5/8"	RIBATTUTA	RIBRUCAMMO
15	12	57 3/4"	RIBIDIVI	RIBRUCANDO
20	12	60 1/2"	RIBLAIM	RIBRUCASSI

MODEL N TROLLEY

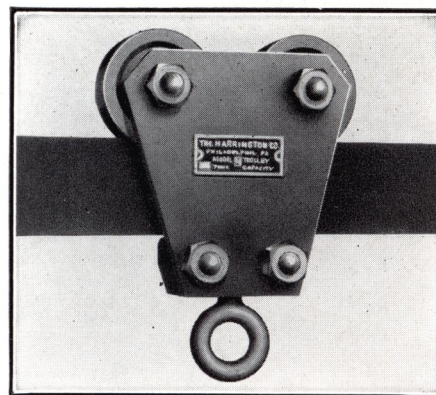


The Model N is a low headroom trolley for monorails of various makes and for flat flange beams. It is adjustable in width from 2" to 4" between wheel flanges. Each pair of wheels swivels at the load bar, which makes this an excellent trolley to use when there are curves in the monorail.

This trolley can be furnished with a great variety of load bar designs, for hook suspension of hoists, for permanent connection, or for special applications. Because of this variety, dimensions and prices shown in this bulletin are subject to variation when special conditions are encountered. The load bar shown above is only one of many different possibilities. We will be glad to quote on special applications for this trolley.

List prices of Model N Trolleys similar to drawing above.

1/4 Ton	1/2 Ton	1 Ton
\$50.00	\$50.00	\$57.00

TROLLEYS FOR
FLAT RAIL

The Steel Plate Trolleys for Flat Rail are often desirable, because of the ease of erecting and making curves in the track.

The side plate is made sufficiently heavy to resist bending, and good clearance is allowed to pass the hanger. The size of the wheels is as large as ordinary head room will allow. Each wheel is equipped with two high duty alloy steel ball bearings.

In the Geared Trolley both wheels act as drivers, to give the greatest tractive force. They are all made to take apart for ease in putting on the rail.

Capacity, in Gross Tons	Size of Rail, in Inches	Height of Top of Rail From Floor for Regular Hand Chain	Minimum Radius of Track Curve, in Inches	Height of Trolley above Rail	
				Push Type	Geared Type
1/4 1/2	3" x 1/2"	9' 8"	72"	4 1/2"	5"
1 1 1/2	4" x 3/4"	10' 4"	72"	4 1/2"	5"
2	4" x 3/4"	11' 9"	96"	6 3/8"	6 3/8"
3 4	6" x 1"	13' 4"	96"	6 3/8"	6 3/8"

PRICES ON REQUEST

I-BEAM OVERHEAD TRACK

Structural I-Beam makes the best overhead track because it has sufficient strength in itself to cover wide spans without additional support.

Harrington track has the flanges straightened, ends are cold sawed and matched, joint plates and end stops are fitted and curves are accurately formed. For short straight tracks it is often desirable to purchase Harrington stock fittings and obtain the beam locally. Consideration should always be given to the strength of the ceiling or roof structure before installing a load-carrying overhead track.

The table of beam sizes and spans for various

loads is based on a fibre stress of 16,000 lbs. per square inch with proper allowance against vertical and lateral deflections. When points of support exceed the allowable spans, then larger beams must be used or the regular size beam must be reinforced by another I-Beam or channel riveted or welded to its upper flange. Track ends may project beyond the last hanger for a distance equal to one quarter of the allowable span.

Curves in track require support at more frequent intervals than straight track and hangers should be spaced closer on sharp curves than on long bends.

MAXIMUM SPANS FOR I-BEAM

Load in Tons	Size of Beam							
	4" 7.7 lb.	5" 10.0 lb.	6" 12.5 lb.	7" 15.3 lb.	8" 18.4 lb.	9" 21.8 lb.	10" 25.4 lb.	12" 31.8 lb.
1/4	12 ft.	16 ft.	19 ft.	23 ft.	25 ft.	.....	.....	.....
1/2	10 ft.	14 ft.	17 ft.	19 ft.	23 ft.	.....	.....	.....
1	.....	10 ft.	13 ft.	17 ft.	20 ft.	24 ft.	25 ft.	.....
1 1/2	.....	.....	10 ft.	13 ft.	17 ft.	20 ft.	23 ft.	26 ft.
2	.....	.....	8 ft.	11 ft.	14 ft.	17 ft.	21 ft.	25 ft.
3	.....	.....	.....	8 ft.	10 ft.	13 ft.	16 ft.	20 ft.
4	.....	.....	.....	.....	.....	11 ft.	13 ft.	18 ft.
5	.....	.....	.....	.....	.....	9 ft.	11 ft.	15 ft.

Size of I-Beam Track	Smallest Practical Radius	Price per Lineal Foot		Minimum Radius of Curve	Price of Fittings each, including Bolts and Holes in Track		
		Straight Track not Drilled	Bending Curves Extra Charge*		Type A Splice Plates on Web	Type B Splice Plates Below Flange	End Stops
5"	24"	\$2.50	\$6.00	24"	\$8.25	\$12.00	\$3.40
6"	27"	3.10	6.50	30"	8.25	12.00	3.75
7"	33"	3.90	7.00	36"	8.25	13.50	3.75
8"	42"	4.60	7.50	48"	8.25	13.50	3.75
10"	60"	6.40	.....	.....	9.00	16.50	3.75
12"	84"	8.00	.....	.....	9.00	16.50	3.75

*For irregular curves or S curves add 50% to cost per lineal foot.

HANGERS FOR I-BEAM TRACK

Hangers for supporting track are furnished in many combinations, several of the most popular being shown on pages 4 and 5.

Where the track is in contact with joists, the simplest fastening is type C-3 clamp held in place by lag screws. Type B-7 clamp is a modification for attachment of track in close contact with structural supports. The elements of all the other types of hangers are one or more beam

clamps, connected by suitable legs.

The beam clamp type C-1, is made in three basic sizes and each will spread to fit two larger beam sizes by separating with packing strips which are available for that purpose. Two C-1 Clamps with suitable modification of the hanger should be used at joints.



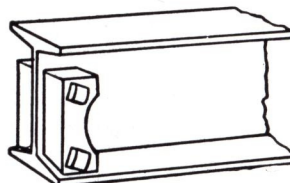
(Continued on next page)

(Continued from Page 1)

Tracks hanging 18" or more below the ceiling should have every third hanger of a "V" or "L" pattern, to prevent side sway of the track. Hangers should be used on curves at more frequent intervals than upon straight track. In ordering, always specify the size of timber or structural section from which the track is to be supported. Every hanger or other fitting for track is shipped complete with the necessary bolts or lag screws to meet ordinary conditions. If a sketch is sent giving details of the points of support, a proposal drawing will be made to indicate the proper hanger to use.

Splice plates for joining beams are of two kinds; type A for attachment to the web of

beams, with countersunk holes to avoid bolt head interferences with the trolley, and type B for attachment under the beam by cap screws into tapped holes in the bottom flange.



End stops are necessary except where the track terminates at a wall. Each pair is fastened to the web of the track beam by two bolts easily removable for the application of trolleys.

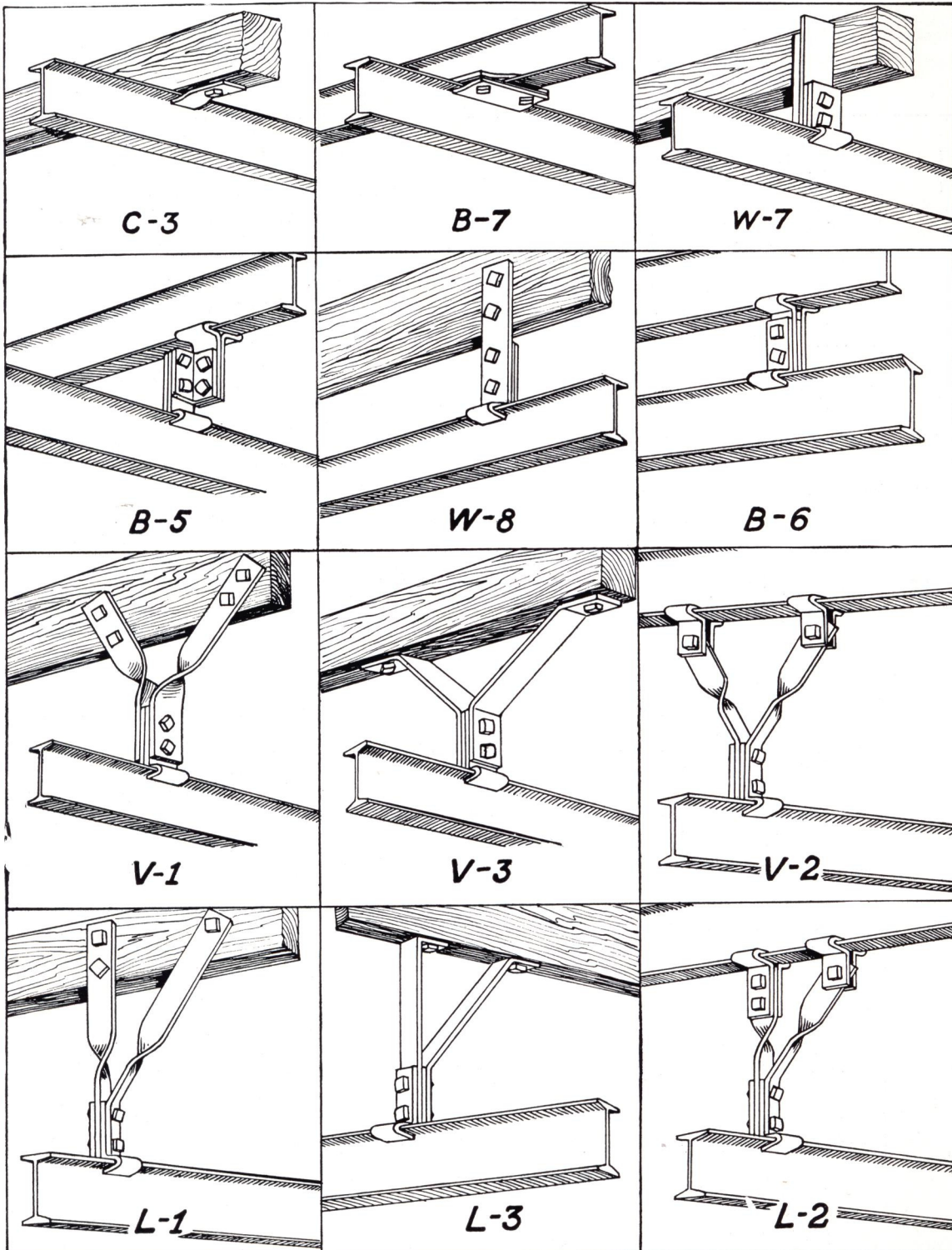
PRICES OF HANGERS

Type of Hanger	Capacity in Tons	Distance from top of I-Beam to under surface of supporting structure		Price each for Minimum Drop Hangers with Bolts or Lag Screws						Extra Drop Each 6 in. or Less
		Minimum	Maximum	STANDARD I-BEAM SIZES						
				5 "	6 "	7 "	8 "	10 "	12 "	
B-5	½ & 1	7 "	18 "	\$11.50	\$11.50	\$12.70	\$12.70	.....	.....	\$0.70
	1½ & 2	7 "	18 "	.....	.....	13.80	13.80	\$16.00	\$18.40	1.05
	3	7 "	18 "	.....	.....	.....	.....	25.30	27.60	1.40
B-6	½ & 1	7 "	18 "	10.40	10.40	11.50	11.50	.....	.....	.45
	1½ & 2	7 "	18 "	.....	.....	12.70	12.70	15.00	17.25	70
	3	7 "	18 "	.....	.....	.....	.....	24.00	26.40	.90
B-7	½ & 1	⅛ "	⅛ "	6.90	6.90	6.90	6.90	.....	.....	.....
	1½ & 2	⅛ "	⅛ "	.....	.....	9.20	9.20	11 50	11.50	.....
	3	⅛ "	⅛ "	.....	.....	.....	.....	13.80	13.80	.....
C-1	½ & 1	0 "	0 "	4.60	4.60	4.60	4.60	.....	.....	.....
	1½ & 2	0 "	0 "	.....	.....	5.75	5.75	8.00	8.00	.....
	3	0 "	0 "	.....	.....	.....	.....	11.50	11.50	.....
C-3	½ & 1	0 "	0 "	4.15	4.15	4.60	4.60	.....	.....	.....
	1½ & 2	0 "	0 "	.....	.....	6.00	6.00	6.45	6.90	.....
	3	0 "	0 "	.....	.....	.....	.....	8.00	9.20	.....
L-1	½ & 1	12 "	15' 0 "	13.80	13.80	15.00	15.00	.....	.....	1.40
	1½ & 2	12 "	15' 0 "	.....	.....	16.00	16.00	17.25	18.40	1.85
	3	12 "	15' 0 "	.....	.....	.....	.....	20.70	23.00	2.30
L-2	½ & 1	15 "	15' 0 "	20.70	20.70	23.00	23.00	.....	.....	1.40
	1½ & 2	15 "	15' 0 "	.....	.....	25.30	25.30	27.60	30.00	1.85
	3	15 "	15' 0 "	.....	.....	.....	.....	32.00	37.00	2.30

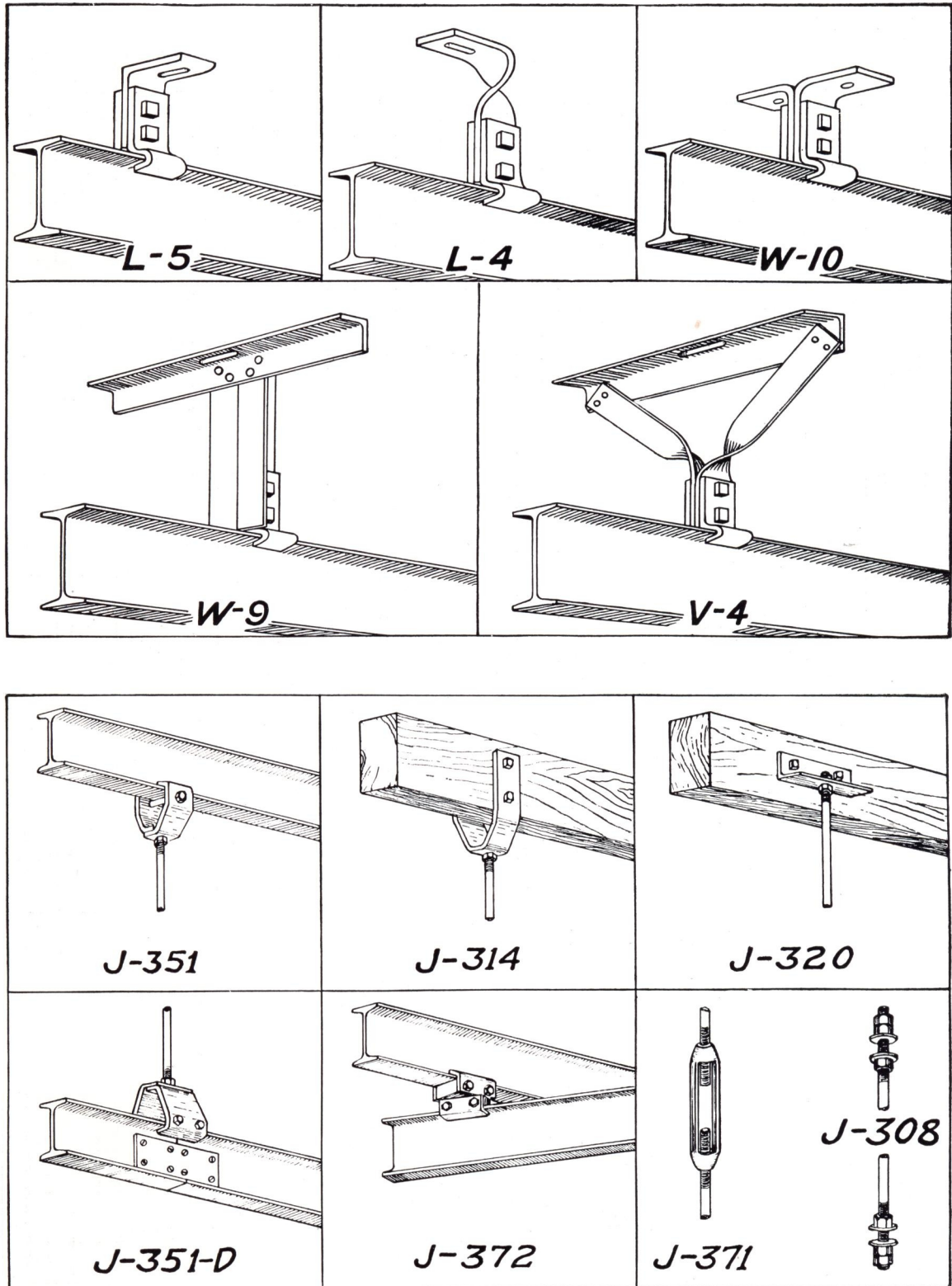
Type of Hanger	Capacity in Tons	Distance from top of I-Beam to under surface of supporting structure		Price each for Minimum Drop Hangers with Bolts or Lag Screws						Extra Drop Each 6 in. or Less
		Minimum	Maximum	STANDARD I-BEAM SIZES						
				5"	6"	7"	8"	10"	12"	
L-3	.....	8"	15' 0"			Use L-1 Prices				
L-4	1/2 & 1	9"	15' 0"	10.40	10.40	11.50	11.50	.....	.....	.45
	1 1/2 & 2	9"	15' 0"	.....	.....	12.70	12.70	15.00	16.00	.70
	3	9"	15' 0"	.....	.....	.....	.....	16.00	18.40	.90
L-5	1/2 & 1	6"	9' 0"	8.00	8.00	9.20	9.20	.....	.....	.45
V-1	.....	15"	15' 0"			Use L-1 prices				
V-2	.....	18"	15' 0"			Use L-2 prices				
V-3	.....	8"	15' 0"			Use L-1 prices				
V-4	1/2 & 1	18"	15' 0"	\$18.40	\$18.40	\$19.60	\$19.60	.....	.....	\$1.85
	1 1/2 & 2	18"	15' 0"	.....	.....	20.70	20.70	\$21.80	\$23.00	2.30
	3	18"	15' 0"	.....	.....	.....	.....	25.30	27.60	2.75
W-7	1/2 & 1	0"	18"	8.00	8.00	9.20	9.20	.....	.....	.70
	1 1/2 & 2	0"	18"	.....	.....	10.40	10.40	11.50	12.70	1.05
	3	0"	18"	.....	.....	.....	.....	15.00	17.25	1.40
W-8	1/2 & 1	3/8"	18"	6.90	6.90	8.00	8.00	.....	.....	.45
	1 1/2 & 2	1/2"	18"	.....	.....	9.20	9.20	10.40	11.50	.70
	3	1/2"	18"	.....	.....	.....	.....	13.80	16.00	.90
W-9	1/2 & 1	7"	18"	15.00	15.00	16.00	16.00	.....	.....	1.40
	1 1/2 & 2	7"	18"	.....	.....	17.25	17.25	18.40	19.60	2.05
	3	7"	18"	.....	.....	.....	.....	20.70	23.00	2.75
W-10	1/2 & 1	6"	18"	10.40	10.40	11.50	11.50	.....	.....	.90
	1 1/2 & 2	6"	18"	.....	.....	12.70	12.70	15.00	16.00	1.40
	3	6"	18"	.....	.....	.....	.....	16.00	18.40	1.85
J-351	1/2 & 1	.....	.....	4.15	4.15	4.15	4.15	4.60	4.60	See
	1 1/2 & 2	.....	.....	.....	.....	5.75	5.75	8.00	8.00	J-308
	3	.....	.....	.....	.....	.....	.....	9.20	9.20	.....
J-351-D	1/2 & 1	.....	.....	5.75	5.75	5.75	5.75	.....	.....	.....
	1 1/2 & 2	.....	.....	.....	.....	5.75	5.75	8.00	8.00	.....
	3	.....	.....	.....	.....	.....	.....	9.20	9.20	.....
J-372	1/2 & 1	6"	.....	12.70	12.70	13.80	13.80	.....	.....	.55
	1 1/2 & 2	6"	.....	.....	.....	15.00	15.00	16.00	18.40	.80
Hanger Rod Complete with Nuts—Max. Length 72"										
J-308	1/2 & 1 1 1/2 & 2 3	Dia.		First 12" or Less			Each Add. 12" or Less			
		3/4"		\$2.05			\$0.70			
		1"		3.45			1.05			
		1 1/4"		4.60			1.40			
J-314	1/2 & 1 1 1/2 & 2 3	Wood Beam Stirrup Specify size of Timber			For Timber 6" or Less in Width			For Timber from 6" to 10" in Width		
					\$5.75			\$6.90		
					7.50			9.20		
J-320	1/2 & 1 1 1/2 & 2 3	Sidebeam or Ceiling Angles with Bolts Specify size of Timber			For Timber 6" or less in Width			For Timber from 6" to 10" in Width		
					\$3.45			\$6.90		
					5.75			9.20		
			8.00			11.50				

*Parts required at each point of suspension are considered as one hanger.

HANGERS FOR I-BEAM TRACK



HANGERS FOR I-BEAM TRACK

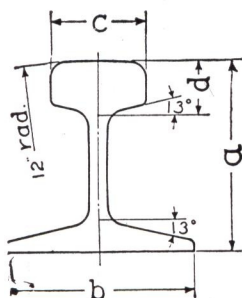


**PARTIAL LIST OF STRUCTURAL SHAPES AVAILABLE FOR MONORAILS,
CRANE GIRDERS AND CRANE RUNWAYS**

Standard I-Beams			WF Sections			WF Sections			WF Sections			WF Sections			STANDARD CHANNELS						
Ht. In.	Weight per Foot Pounds	Flange Width Inches	Ht. In.	Weight per Foot Pounds	Flange Width Inches	Ht. In.	Weight per Foot Pounds	Flange Width Inches	Ht. In.	Weight per Foot Pounds	Flange Width Inches	Ht. In.	Weight per Foot Pounds	Flange Width Inches	Ht. In.	Weight per Foot Pounds	Flange Width Inches				
5	10.0	3.000	5	16.0	5.000	12	* 16.5	4.000		B 50.	7.073		B 145.	14.043	5	6.70	1.750				
	14.75	3.284						B 58.		8.464			B 160.	14.091			9.00	1.885			
								B 64.		8.500											
6	12.5	3.330	6	* 12.0	4.000		B 27.	6.500		B 71.	8.543	27	B 94.	9.990	6	8.20	1.920				
	17.25	3.565						B 31.		6.525			B 78.	8.586			B 102.	10.018		10.50	2.034
								B 36.		6.565			B 88.	11.502			B 114.	10.070		13.00	2.157
7	15.3	3.660		20.	6.018	12				B 96.	11.533		B 145.	13.965	7	9.80	2.090				
	20.0	3.860											B 160.	14.023			B 177.	14.090		12.25	2.194
																				14.75	2.229
8	18.4	4.000	8	* 13.0	4.000		50.	8.077	18	B 50.	7.500										
	23.0	4.171						53.		10.000			B 55.	7.532							
								58.		10.014	18		B 60.	7.558		30	B 108.	10.484	8	11.50	2.260
10	25.4	4.660	B 17.	5.250		65.	12.000		B 64.	8.715			B 116.	10.500			13.75	2.343			
	35.0	4.944	B 20.	5.268	and 10 other sizes up to				B 70.	8.750			B 124.	10.521			18.75	2.527			
			24.	6.500					B 77.	8.787		B 132.	10.551								
12	31.8	5.000	28.	6.540						B 85.	8.838		B 172.	14.985	9	13.40	2.430				
	35.0	5.078	31.	8.000		190.	12.670		B 96.	11.750		B 190.	15.040			15.00	2.485				
	40.8	5.250	and 5 other sizes up to			14	B 30.	6.733		B 105.	11.792		B 210.	15.105			20.00	2.648			
50.0	5.477						B 34.	6.750		B 114.	11.833	33	B 130.	11.510	10	15.3	2.600				
							B 38.	6.776						B 141.		11.535		20.	2.739		
15	42.9	5.500	67.	8.287		43.	8.000	21	B 62.	8.240			B 152.	11.565			25.	2.886			
	50.0	5.640	10	* 15.0	4.000	48.	8.031			B 68.	8.270		B 200.	15.750		30	3.033				
				* 17.0	4.010	53.	8.062			B 73.	8.295		B 220.	15.810							
18	54.7	6.000		* 19.0	4.020	61.	10.000		B 82.	8.962		B 240.	15.865	12	20.7	2.940					
	70.0	6.251	B 21.	5.750	68.	10.040		B 96.	9.038						25.	3.047					
			B 25.	5.762	74.	10.072		B 112.	13.000						30.	3.170					
20	65.4	6.250	B 29.	5.799	78.	12.000		B 127.	13.061	36	B 150.	11.972		33.9	3.400						
	75.0	6.391	33.	7.964	84.	12.023		B 142.	13.132			B 160.	12.000		40.	3.520					
	85.0	7.053	39.	7.990	87.	14.500						B 170.	12.027		50.	3.716					
24	95.0	7.200	45.	8.022	and 26 other sizes up to			24	B 76.	8.985		B 182.	12.072	15							
			49.	10.000						B 84.	9.015		B 194.		12.117						
										B 94.	9.061		B 230.		16.475						
	79.9	7.000	and 8 other sizes up to			426.	16.695		B 100.	12.000		B 245.	16.512	18	42.7	3.950					
	90.0	7.124							B 110.	12.042		B 260.	16.555			45.8	4.000				
	100.0	7.247							B 120.	12.088		B 280.	16.595			51.9	4.100				
	105.9	7.875							B 130.	14.000		B 300.	16.655		58.0	4.200					
	120.0	8.048	112.	10.415																	

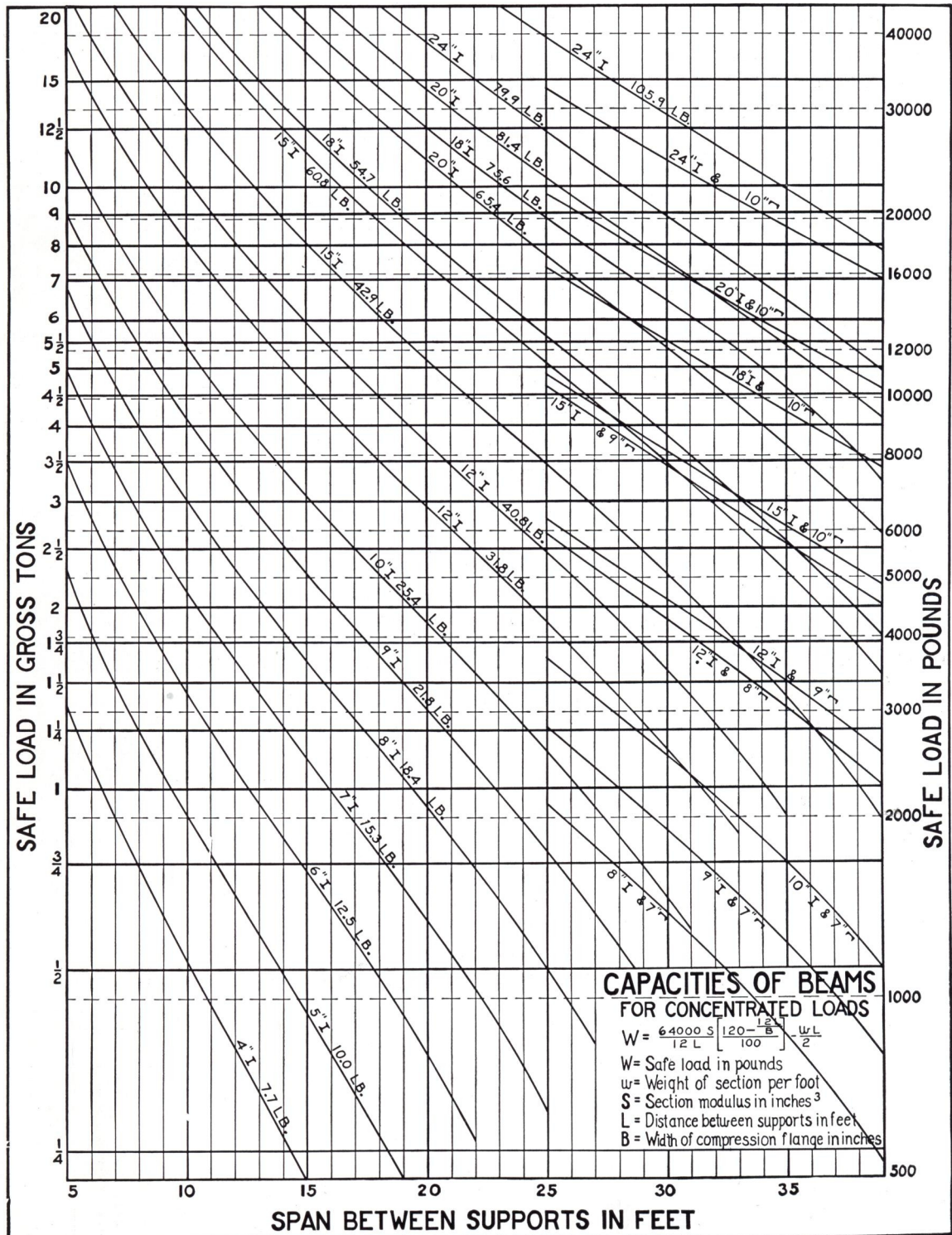
B If rolled by Bethlehem Steel Co. flanges have 5% slope.
* If rolled by Bethlehem Steel Co. flanges have 2% slope.

DIMENSIONS OF CRANE RAILS



Weight per Yard	A	B	C	D	Weight per Yard	A	B	C	D
12	2	2	1	$\frac{9}{16}$	50	$3\frac{7}{8}$	$3\frac{7}{8}$	$2\frac{1}{8}$	$1\frac{1}{8}$
14	$2\frac{1}{16}$	$2\frac{1}{16}$	$1\frac{1}{16}$	$\frac{5}{8}$	55	$4\frac{1}{16}$	$4\frac{1}{16}$	$2\frac{1}{4}$	$1\frac{1}{4}$
16	$2\frac{3}{8}$	$2\frac{3}{8}$	$1\frac{1}{4}$	$\frac{11}{16}$	60	$4\frac{1}{4}$	$4\frac{1}{4}$	$2\frac{3}{8}$	$1\frac{3}{8}$
20	$2\frac{5}{8}$	$2\frac{5}{8}$	$1\frac{3}{4}$	$\frac{13}{16}$	65	$4\frac{7}{16}$	$4\frac{7}{16}$	$2\frac{1}{2}$	$1\frac{3}{4}$
25	$2\frac{3}{4}$	$2\frac{3}{4}$	$1\frac{1}{2}$	$\frac{3}{4}$	70	$4\frac{9}{16}$	$4\frac{9}{16}$	$2\frac{1}{2}$	$1\frac{3}{4}$
30	$3\frac{1}{8}$	$3\frac{1}{8}$	$1\frac{1}{2}$	$\frac{7}{8}$	75	$4\frac{11}{16}$	$4\frac{11}{16}$	$2\frac{1}{2}$	$1\frac{3}{4}$
35	$3\frac{5}{16}$	$3\frac{5}{16}$	$1\frac{3}{4}$	$\frac{15}{16}$	80	5	5	$2\frac{1}{2}$	$1\frac{3}{4}$
40	$3\frac{1}{2}$	$3\frac{1}{2}$	$1\frac{7}{8}$	$1\frac{1}{4}$	85	$5\frac{3}{16}$	$5\frac{3}{16}$	$2\frac{1}{2}$	$1\frac{3}{4}$
45	$3\frac{11}{16}$	$3\frac{11}{16}$	2	$1\frac{1}{2}$	90	$5\frac{5}{8}$	$5\frac{5}{8}$	$2\frac{5}{8}$	$1\frac{3}{4}$
					100	$5\frac{3}{4}$	$5\frac{3}{4}$	$2\frac{3}{4}$	$1\frac{3}{4}$

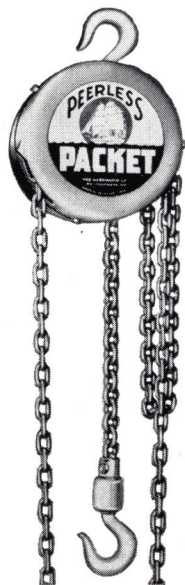
CAPACITIES OF BEAMS



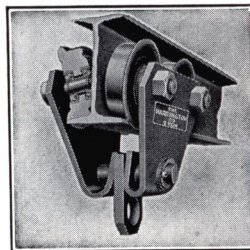
SPUR GEARED CHAIN HOISTS



PEERLESS "C"
BULLETIN P-11

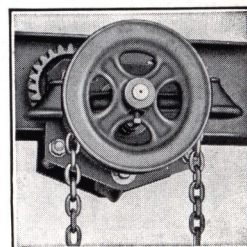


PEERLESS PACKET
BULLETIN P-5



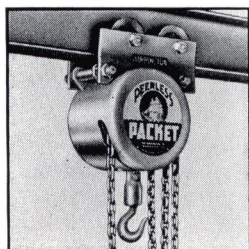
PUSH
TROLLEYS

BULLETIN P-65

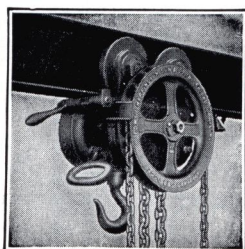


GEARED
TROLLEYS

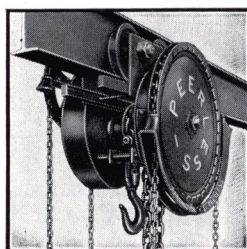
PEERLESS TROLLEY HOISTS FOR CLOSE HEAD ROOM



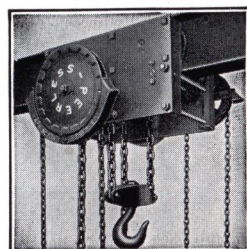
PACKET



TYPE B



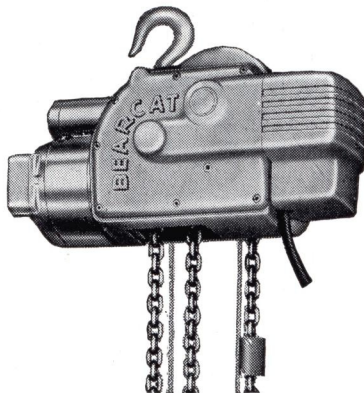
TYPE H



TYPE CH

BULLETIN P-35

BEARCAT



BULLETIN P-53

ELECTRIC HOISTS



HARRINGTON CRANES

You can pick up a load at any point on your shop or warehouse floor and place it exactly where you want it by using a hoist and trolley carried on a travelling crane. The following pages describe several types of cranes built to suit various shop conditions.

Almost any of the hoist and trolley equipment described in other bulletins can be used with cranes, the choice depending on the conditions of use.

Where power is available, use a Bearcat or Model E Electric Hoist, which are offered with several styles of trolleys both plain and geared. Current conductor wires and collector arms can be installed on most cranes.

For efficient hand operation use the Peerless

Model C or Peerless Packet Hoist suspended by hook or permanently combined with a Model D or F Trolley, when traversed by pushing on the load, or with a Model C Trolley for geared travel.

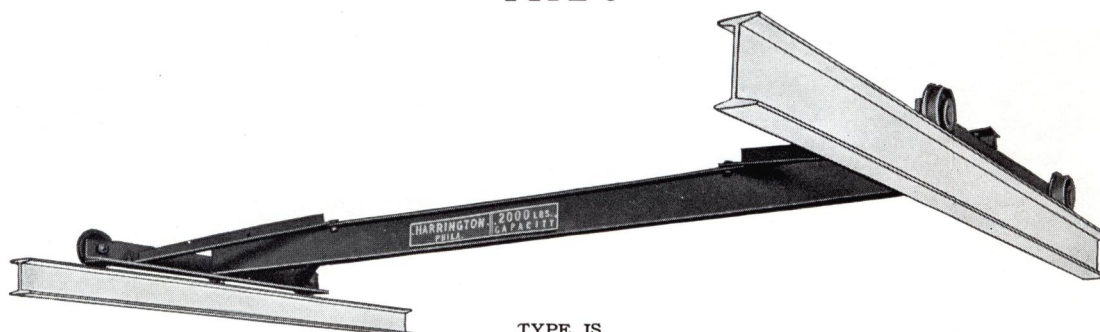
Peerless Trolley Hoists should be used where little head room is available.

Any of the Extended Hand Wheel or Double Hook features can be incorporated in crane equipment.

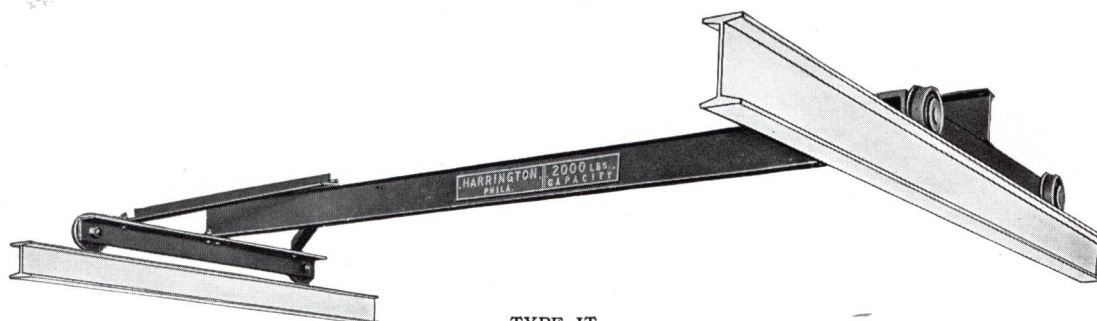
If you will send in your problem, a recommendation will be cheerfully given.

Please give us as many details as possible, particularly capacity, rail size and center distance, clearance required and any obstructions.

TRAVELING CRANE TYPE J



TYPE JS



TYPE JT

Type J Cranes, for operation on top of I-beam runways have single flanged wheels with ball bearings and end members of structural steel. They are very desirable cranes for handling moderate loads when propulsion by pushing on the load is satisfactory. For long spans and when geared traverse is required Type C or U cranes should be used.

The wheels have true and accurate hard chilled treads which give long life under continuous use. Each of the four wheels is equipped with two high duty alloy steel ball bearings of large capacity permitting very easy movement of the crane by pushing on the load. The wheel studs are large in size and have nipples for lubrication from a standard type of pressure grease gun.

All parts of the crane which are in tension are of rolled steel, the safest material to use. The

end members are rigidly braced to the main beam to prevent distortion when pushed at either end. This type is made only for use on top of the runway but can be constructed either with the crane beam between the end members when the available head room is small, or with the crane beam on top of the end members when the greatest possible lifting distance is desired. It is not made for geared traverse.

End members complete with diagonal braces, fittings and bolts, can be furnished when the customer desires to supply the crane beam and assemble locally.

Various combinations of Harrington Hoists and Trolleys can be used for the lifting equipment.

Spans of more than fifteen feet are not advised unless the capacity is increased to provide the advantage of larger end trucks.

Capacity in tons	Diameter of trolley wheel	Size of angle End Frame	Wheel Base	Regular Crane Beam size	Maximum Span with regular crane beam*	Price of Types JS and JT		
						Complete crane 10 ft. span	Extra Span using regular Beam†	Without crane Beam
1/2	4 3/8"	3 1/2 x 3 x 3/8	4'0"	5"—10.0 lb.	14'	\$140.00	\$2.00 per ft.	\$120.00
1	5 1/8"	4 x 3 x 1/2	4'0"	6"—12.5 lb.	13'	160.00	2.40 per ft.	136.00
1 1/2	5 7/8"	5 x 3 x 1/2	4'6"	7"—15.3 lb.	13'	190.00	3.00 per ft.	160.00
2	7"	6 x 4 x 1/2	4'6"	8"—18.4 lb.	14'	240.00	4.00 per ft.	200.00

*Longer spans require stronger crane beams. Select the size from data of Types CS and CT cranes.

†Prices will be quoted on request for longer spans using larger crane beams.

TRAVELING CRANE

TYPE H



TYPE HS



TYPE HU

Type H cranes, for operation on the lower flanges of I-beam runways, are constructed of four plain trolleys and a few regular stock sections of structural steel. They are very practical and inexpensive cranes and are easy to install.

Because of the flexible, self-aligning principle of the Model D trolley, used as the truck members of the cranes, every wheel takes its share of the load. The wheels have true and accurate hard chilled treads which give long life under continuous use. Each of the sixteen wheels is equipt with two high duty alloy steel ball bearings, permitting very easy movement of the crane by pushing on the load.

All parts of the crane which are in tension are of rolled steel, the safest material to use. The end members are rigidly braced to the main beam to prevent distortion when pushed at

either end. This type is made only for use on the lower flanges of I-beam runways, but can be constructed either with the crane beam below the end angles, in which case the trolley travel can be greater than the distance between runways, or the crane beam can be attached level with and between the end angles when high headroom is desirable. It is not made for geared traverse.

End members complete with diagonal braces, fittings and bolts, can be furnished when the customer desires to supply the crane beam and assemble locally.

Various combinations of Harrington Hoists and Trolleys can be used for the lifting equipment.

For spans of over fifteen feet and whenever geared traverse is required, Type U cranes should be used.

Capacity in tons	Size of trolley	Size of Angle End Frame	Wheel Base between Trolleys	Regular Crane Beam size	Maximum Span with regular crane beam*	Price of Types HS and HU		
						Complete crane 10 ft. span	Extra Span using regular Beam†	Without crane Beam
1/2	1/2 Ton D	3 1/2 x 3 x 3/8	4'0"	5"—10.0 lb.	14'	\$260.00	\$2.00 per ft.	\$240.00
1	1/2 Ton D	3 1/2 x 3 x 3/8	4'0"	6"—12.5 lb.	13'	280.00	2.40 per ft.	256.00
1 1/2	1 Ton D	4 x 3 x 1/2	4'6"	7"—15.3 lb.	13'	310.00	3.00 per ft.	280.00
2	1 Ton D	5 x 3 x 1/2	4'6"	8"—18.4 lb.	14'	360.00	4.00 per ft.	320.00
3	1 1/2 Ton D	6 x 3 1/2 x 5/8	4'6"	10"—25.4 lb.	16'	420.00	5.00 per ft.	364.00
4	2 Ton D	6 x 3 1/2 x 3/4	4'6"	10"—25.4 lb.	13'	470.00	5.00 per ft.	420.00

*Longer spans require stronger crane beams. Select the size from data of Types CS and CT cranes.
†Prices will be quoted on request for longer spans using larger crane beams.

TRAVELING CRANES TYPE C

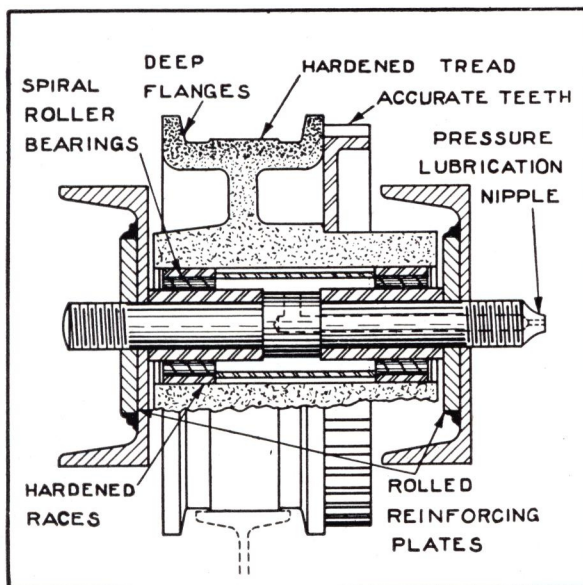


TYPE CS ABOVE RUNWAY—BEAM BETWEEN END TRUCKS

Type C Cranes are all rigidly constructed and amply braced. Style CS above has the crane girder between the end trucks for minimum head room. In style CT the girder is mounted on top and permits higher travel of the hoist hook.

Crane wheels are double flanged and have chilled treads and each wheel has two high duty roller bearings with hardened and ground inside and outside races. Each wheel shaft has provision for grease gun lubrication.

Crane rails on the top of runways are advocated for best results but when necessary the crane can have wide wheels to run directly on the top flange of I Beam or channel runways. These wide wheels have a narrow central chilled tread to bear directly over the web of the beam. An extra price is charged when wide wheels are required. Prices on application.



End frames are regular channel sections reinforced by arc-welded plates providing strong axle support. The inside channels are placed with the web facing the crane beam, a Harrington feature for the strongest connection between end trucks and crane beam and for greater rigidity. The channel ends project beyond the wheels to act as bumpers and prevent damage to the wheels in case of collision with other cranes, or against the building. Diagonal braces keep the ends square with the beam at all times.

Cranes with geared movement have a cut tooth spur gear ring bolted to one wheel in each end truck, both being driven simultaneously by steel pinions on the driving shaft, which also carries a hand chain and wheel with a guide for the chain. The hand chain wheel is usually placed at one end but can be located at any point nearer the center if desired. On spans greater than 15 feet, the shaft is supported by one or two brackets with bearings.

In Type CS cranes the beam is placed between the end trucks, and bolted to these by two pairs of angles on each end, one pair fastening the web of the beam to the web of the end truck channel, the other pair bolted to the crane beam and passing over the end truck, being bolted to the flanges of both channels.

In Type CT cranes the crane beam rests directly on top of the end trucks and is securely braced in the upright position. This construction permits higher lifting distance but requires more head room above the runway.

Prices and data of Types CS and CT complete cranes are shown on pages 6 to 9. Prices and data of end trucks only are on page 12.

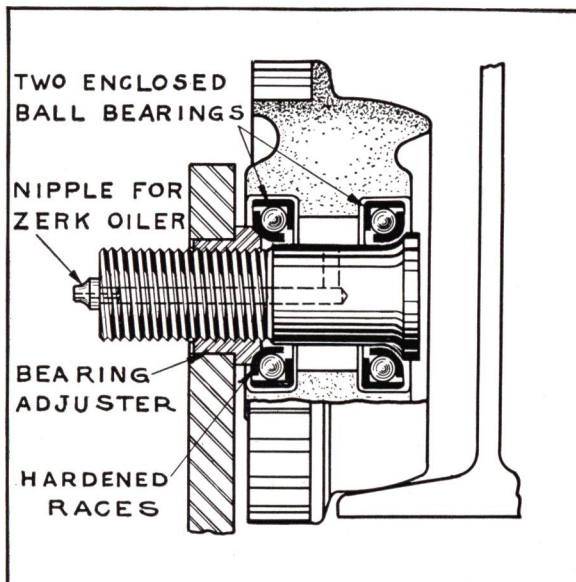
TRAVELING CRANES TYPE U



TYPE U BELOW RUNWAY—BEAM BELOW END TRUCKS

Type U Cranes are the most rigidly constructed of the under hung types and are recommended for heavy duty and for long spans. They can be furnished either plain for propulsion by pushing on the load, or for geared travel by means of a hand chain and drive shaft connecting the two end trucks.

Type U Cranes have four wheels in each end truck, each wheel equipped with two high duty alloy steel ball bearings. The wheels are single flanged to run on the lower flanges of the runway. The end frames consist of heavy channels and angles securely arc-welded and bolted together and extending beyond the wheels as bumpers. Diagonal braces keep the end trucks square with the beam at all times.



Plain cranes are easily moved by pushing on the load but geared cranes are often advantageous especially when accurate placing is desired. The pendant hand chain and wheel are usually placed close to one end but can be located at any mid-way point if desired. Shaft supports are added on cranes of greater span than 15 feet.

It is often desirable to use a Type U crane in a central bay with frequently placed parallel transfer tracks in the outer bays to line up with the crane beam. Transfer locks on the crane beam and each outside track maintain alignment while a trolley is passing on or off the crane.

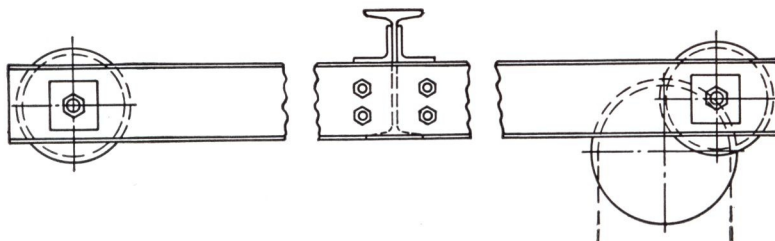
A great advantage of this type of crane is the opportunity to extend the crane beam beyond the runways thus increasing the cross travel of the hoist and trolley to the maximum. The amount of extension of travel at each end should not exceed one-fourth of the distance between runways and in large capacities or short spans, the possible extension should be checked against the balancing weight of the crane.

Prices and data of Type U complete cranes are shown on pages 10 and 11. Prices and data of end trucks only are on page 13.

To determine extra price of cranes with beams extending beyond runways:

Deduct price of end trucks (Page 13) from price of complete crane (Pages 10-11) and divide this figure by the *runway distance* in feet. The result is the list price, per foot, of extension.

TRAVELING CRANES ABOVE RUNWAY—TYPE C



TYPE CS

LIST PRICES AND DATA OF TYPES CS AND CT

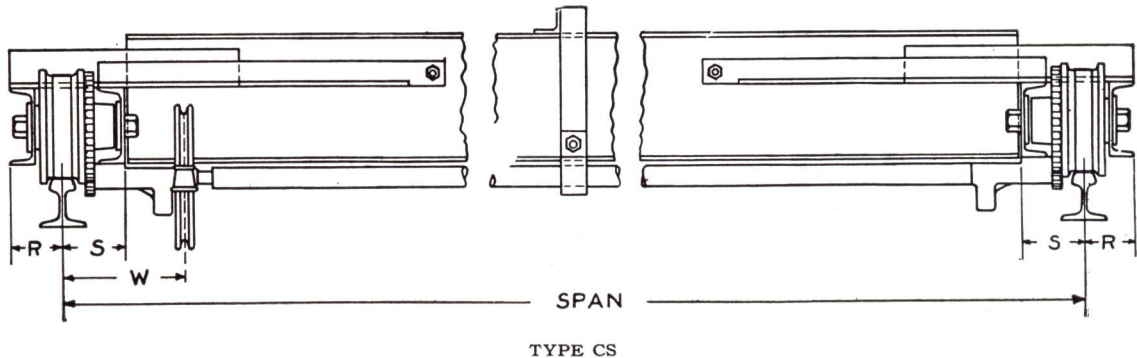
½ TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$496.00	\$500.00	\$508.00	\$516.00	\$552.00	\$564.00	\$572.00	\$616.00
Price of Plain Crane.....	350.00	354.00	360.00	362.00	370.00	378.00	386.00	430.00
Size of Bridge Beam.....	5" I	5" I	5" I	6" I	6" I	7" I	7" I	8" I
End Truck Symbol.....	A	A	A	A	A	A	A	B
Max. height above runway, Type CS.....	9½"	9½"	9½"	9½"	9½"	10"	10"	10"
Max. height above runway, Type CT*.....	14"	14"	14"	15"	15"	16"	16"	17"
Beam flange to runway, Type CS†.....	a 2"	a 2"	a 2"	a 1"	a 1"	0	0	b 1"
Beam flange to runway, Type CT†.....	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"
1 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$500.00	\$504.00	\$512.00	\$520.00	\$564.00	\$572.00	\$586.00	\$634.00
Price of Plain Crane.....	354.00	360.00	364.00	368.00	374.00	386.00	400.00	446.00
Size of Bridge Beam.....	6" I	6" I	7" I	7" I	8" I	8" I	10" I	10" I
End Truck Symbol.....	A	A	A	A	A	A	A	B
Max. height above runway, Type CS.....	9½"	9½"	10"	10"	10"	10"	13"	13"
Max. height above runway, Type CT*.....	15"	15"	16"	16"	17"	17"	19"	19"
Beam flange to runway, Type CS†.....	a 1"	a 1"	0	0	b 1"	b 1"	a 1"	a 1"
Beam flange to runway, Type CT†.....	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"
1½ TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$600.00	\$606.00	\$620.00	\$630.00	\$680.00	\$696.00	\$712.00	\$780.00
Price of Plain Crane.....	450.00	456.00	468.00	480.00	496.00	510.00	526.00	592.00
Size of Bridge Beam.....	7" I	7" I	8" I	8" I	10" I	10" I	10" I	12" I
End Truck Symbol.....	A	A	A	A	A	A	A	B
Max. height above runway, Type CS.....	13"	13"	13"	13"	13"	13"	13"	16"
Max. height above runway, Type CT*.....	19"	19"	20"	20"	22"	22"	22"	24"
Beam flange to runway, Type CS†.....	a 3"	a 3"	a 2"	a 2"	0	0	0	a 2"
Beam flange to runway, Type CT†.....	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"
2 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$606.00	\$612.00	\$620.00	\$640.00	\$686.00	\$696.00	\$724.00	\$780.00
Price of Plain Crane.....	456.00	462.00	468.00	488.00	502.00	510.00	538.00	592.00
Size of Bridge Beam.....	8" I	8" I	8" I	10" I	10" I	10" I	12" I	12" I
End Truck Symbol.....	A	A	A	A	A	A	A	B
Max. height above runway, Type CS.....	13"	13"	13"	13"	13"	13"	16"	16"
Max. height above runway, Type CT*.....	20"	20"	20"	22"	22"	22"	24"	24"
Beam flange to runway, Type CS†.....	a 2"	a 2"	a 2"	0	0	0	a 2"	a 2"
Beam flange to runway, Type CT†.....	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"

*Maximum height for Plain Cranes is 2" less for spans with plain beams and 1" less for spans with channel re-enforcement.

†Top of Runway Rail is used as reference level; "a" indicates distance that bottom of crane beam is above top of runway, "b" indicates distance that bottom of crane beam is below top of runway. Above prices subject to increase when wide tread wheels are used.

For Type CS Cranes: dimensions shown above and below runways are standard. In some cases, the beam can be lowered, giving more clearance above the runway and correspondingly less clearance below the runway. Please inquire at the factory when this problem is encountered.

TRAVELING CRANES ABOVE RUNWAY—TYPE C



LIST PRICES AND DATA OF TYPES CS AND CT

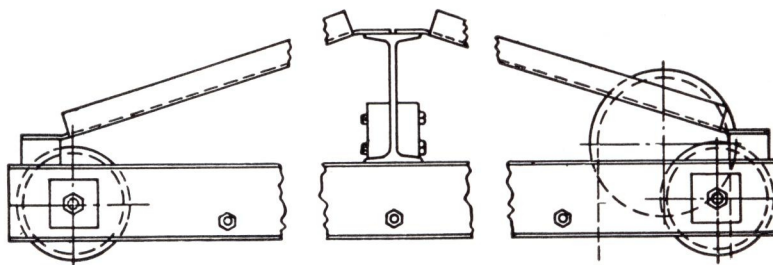
For dimensions indicated above, please see Page 12.

1/2 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$616.00	\$642.00	\$664.00	\$740.00	\$794.00	\$804.00	\$828.00	\$874.00
Price of Plain Crane	438.00	452.00	472.00	518.00	550.00	560.00	600.00	646.00
Size of Bridge Beam	8" I	10" I	10" I	10" I	10" I	10" I	10" I	12" I
End Truck Symbol	B	B	B	C	C	C	C	C
Max. height above runway, Type CS	10"	13"	13"	13"	13 1/4"	13 1/4"	13 1/4"	15 1/4"
Max. height above runway, Type CT*	17"	19"	19"	19"	19"	19"	19"	21 1/4"
Beam flange to runway, Type CS†	b 1"	a 1"	a 1"	a 1"	a 2"	a 2"	a 1"	a 1"
Beam flange to runway, Type CT†	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"
1 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$644.00	\$672.00	\$684.00	\$760.00	\$806.00	\$840.00	\$860.00	\$928.00
Price of Plain Crane	460.00	480.00	492.00	540.00	560.00	600.00	654.00	700.00
Size of Bridge Beam	10" I	12" I	12" I	12" I	12" I	12" I	12" I	12" I
End Truck Symbol	B	B	B	C	C	C	C	C
Max. height above runway, Type CS	13"	15"	15"	15"	15 1/4"	15 1/4"	15 1/4"	15 1/4"
Max. height above runway, Type CT*	19"	21"	21"	21"	21 1/4"	21 1/4"	21 1/4"	21 1/4"
Beam flange to runway, Type CS†	a 1"	a 1"	a 1"	a 1"	a 1"	a 1"	a 1"	a 1"
Beam flange to runway, Type CT†	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"	a 7"
1 1/2 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$792.00	\$808.00	\$880.00	\$960.00	\$1000.00	\$1020.00	\$1080.00	\$1100.00
Price of Plain Crane	604.00	618.00	688.00	740.00	776.00	796.00	854.00	872.00
Size of Bridge Beam	12" I	12" I	15" I	15" I	12" I	12" I	15" I	15" I
End Truck Symbol	B	B	B	C	C	C	C	C
Max. height above runway, Type CS	16"	16"	19"	19"	16 1/4"	16 1/4"	19 1/4"	19 1/4"
Max. height above runway, Type CT*	24"	24"	27"	27"	24 1/4"	24 1/4"	27 1/4"	27 1/4"
Beam flange to runway, Type CS†	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"
Beam flange to runway, Type CT†	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"
2 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$820.00	\$840.00	\$880.00	\$960.00	\$1000.00	\$1060.00	\$1080.00	\$1150.00
Price of Plain Crane	632.00	650.00	688.00	740.00	776.00	836.00	854.00	920.00
Size of Bridge Beam	15" I	15" I	15" I	12" I	15" I	15" I	15" I	15" I
End Truck Symbol	B	B	B	C	C	C	C	C
Max. height above runway, Type CS	19"	19"	19"	16 1/4"	19 1/4"	19 1/4"	19 1/4"	19 1/4"
Max. height above runway, Type CT*	27"	27"	27"	24 1/4"	27 1/4"	27 1/4"	27 1/4"	27 1/4"
Beam flange to runway, Type CS†	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"
Beam flange to runway, Type CT†	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"	a 10"

To compute overall lengths add twice the outside clearance R to the span. The length of crane beams is span minus 2S for type S and span plus 2R for Type T. See page 12 for values of R and S.

Above prices subject to increase when wide tread wheels are used.

TRAVELING CRANES ABOVE RUNWAY—TYPE C



TYPE CT

LIST PRICES AND DATA OF TYPES CS AND CT

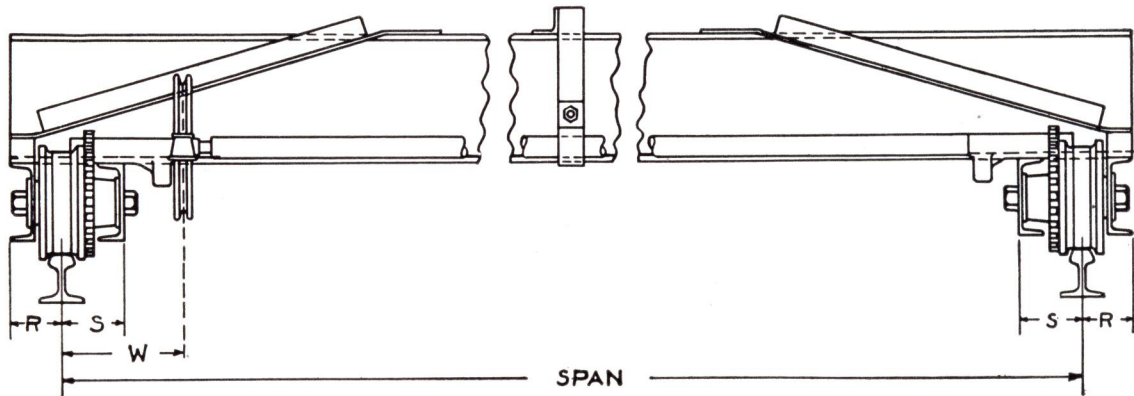
3 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$712.00	\$720.00	\$740.00	\$752.00	\$814.00	\$830.00	\$870.00	\$960.00
Price of Plain Crane.....	556.00	564.00	580.00	594.00	620.00	632.00	672.00	760.00
Size of Bridge Beam.....	10" I	10" I	10" I	12" I	12" I	12" I	15" I	15" I
End Truck Symbol.....	A	A	A	A	A	A	A	B
Max. height above runway, Type CS.....	15 1/2"	15 1/2"	15 1/2"	15 1/2"	15 1/2"	15 1/2"	19"	19"
Max. height above runway, Type CT*.....	24"	24"	24"	26"	26"	26"	29"	29"
Beam flange to runway, Type CS†.....	a 2"	a 2"	a 2"	0	0	0	a 2"	a 2"
Beam flange to runway, Type CT†.....	a12"	a12"	a12"	a12"	a12"	a12"	a12"	a12"
4 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$716.00	\$724.00	\$740.00	\$764.00	\$834.00	\$852.00	\$870.00	\$960.00
Price of Plain Crane.....	560.00	568.00	580.00	606.00	640.00	654.00	672.00	760.00
Size of Bridge Beam.....	10" I	10" I	12" I	12" I	15" I	15" I	15" I	18" I
End Truck Symbol.....	A	A	A	A	A	A	A	B
Max. height above runway, Type CS.....	15 1/2"	15 1/2"	15 1/2"	15 1/2"	19"	19"	19"	22"
Max. height above runway, Type CT*.....	24"	24"	26"	26"	29"	29"	29"	32"
Beam flange to runway, Type CS†.....	a 2"	a 2"	0	0	a 2"	a 2"	a 2"	a 2"
Beam flange to runway, Type CT†.....	a12"	a12"	a12"	a12"	a12"	a12"	a12"	a12"
5 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$860.00	\$870.00	\$890.00	\$920.00	\$990.00	\$1016.00	\$1060.00	\$1140.00
Price of Plain Crane.....	700.00	710.00	726.00	756.00	774.00	800.00	840.00	920.00
Size of Bridge Beam.....	12" I	12" I	12" I	15" I	15" I	15" I	18" I	18" I
End Truck Symbol.....	A	A	A	A	A	A	A	A
Max. height above runway, Type CS.....	18"	18"	18"	18"	18"	18"	22"	22"
Max. height above runway, Type CT*.....	28"	28"	28"	31"	31"	31"	34"	34"
Beam flange to runway, Type CS†.....	a 2"	a 2"	a 2"	b 1"	b 1"	b 1"	a 2"	a 2"
Beam flange to runway, Type CT†.....	a14"	a14"	a14"	a14"	a14"	a14"	a14"	a14"
6 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$870.00	\$880.00	\$900.00	\$920.00	\$990.00	\$1036.00	\$1060.00	\$1140.00
Price of Plain Crane.....	710.00	720.00	736.00	756.00	774.00	820.00	840.00	920.00
Size of Bridge Beam.....	15" I	15" I	15" I	15" I	15" I	18" I	18" I	18" I
End Truck Symbol.....	A	A	A	A	A	A	A	A
Max. height above runway, Type CS.....	18"	18"	18"	18"	18"	22"	22"	22"
Max. height above runway, Type CT*.....	31"	31"	31"	31"	31"	34"	34"	34"
Beam flange to runway, Type CS†.....	b 1"	b 1"	b 1"	b 1"	b 1"	a 2"	a 2"	a 2"
Beam flange to runway, Type CT†.....	a14"	a14"	a14"	a14"	a14"	a14"	a14"	a14"

*Maximum height for Plain Cranes is 2" less for spans with plain beams and 1" less for spans with channel re-enforcement.

†Top of Runway Rail is used as reference level; "a" indicates distance that bottom of crane beam is above top of runway, "b" indicates distance that bottom of crane beam is below top of runway. Above prices subject to increase when wide tread wheels are used.

For Type CS Cranes: dimensions shown above and below runways are standard. In some cases, the beam can be lowered, giving more clearance above the runway and correspondingly less clearance below the runway. Please inquire at the factory when this problem is encountered.

TRAVELING CRANES ABOVE RUNWAY—TYPE C



TYPE CT

LIST PRICES AND DATA OF TYPES CS AND CT

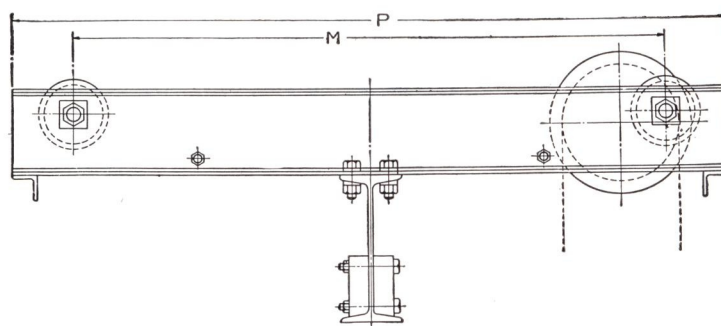
For dimensions indicated
above, please see Page 12.

3 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$988.00	\$1006.00	\$1100.00	\$1210.00	\$1260.00	\$1284.00	\$1356.00	\$1380.00
Price of Plain Crane	788.00	804.00	896.00	970.00	1018.00	1042.00	1112.00	1134.00
Size of Bridge Beam	15" I	18" I	18" I	18" I	15" I	18" I	18" I	18" I
End Truck Symbol	B	B	B	C	C	C	C	C
Max. height above runway, Type CS	19"	22"	22"	22"	19 1/4"	22 1/4"	22 1/4"	22 1/4"
Max. height above runway, Type CT*	29"	32"	32"	32"	29 1/4"	32 1/4"	32 1/4"	32 1/4"
Beam flange to runway, Type CS†	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"
Beam flange to runway, Type CT†	a12"	a12"	a12"	a12"	a12"	a12"	a12"	a12"
4 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$1016.00	\$1040.00	\$1100.00	\$1250.00	\$1300.00	\$1332.00	\$1380.00	\$1424.00
Price of Plain Crane	816.00	840.00	896.00	1010.00	1060.00	1090.00	1136.00	1180.00
Size of Bridge Beam	18" I	18" I	18" I	20" I	20" I	18" I	20" I	20" I
End Truck Symbol	B	B	B	C	C	C	C	C
Max. height above runway, Type CS	22"	22"	24"	24"	24"	24 1/4"	24 1/4"	24 1/4"
Max. height above runway, Type CT*	32"	32"	32"	34"	34"	32 1/4"	34 1/4"	34 1/4"
Beam flange to runway, Type CS†	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"
Beam flange to runway, Type CT†	a12"	a12"	a12"	a12"	a12"	a12"	a12"	a12"
5 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$1170.00	\$1220.00	\$1280.00	\$1480.00	\$1530.00	\$1560.00	\$1590.00	\$1620.00
Price of Plain Crane	950.00	1000.00	1056.00	1206.00	1254.00	1284.00	1310.00	1340.00
Size of Bridge Beam	18" I	20" I	20" I	24" I	24" I	20" I	20" I	20" I
End Truck Symbol	A	A	A	C	C	C	C	C
Max. height above runway, Type CS	22"	24"	24"	28"	28"	24 1/4"	24 1/4"	24 1/4"
Max. height above runway, Type CT*	34"	36"	36"	40"	40"	36 1/4"	36 1/4"	36 1/4"
Beam flange to runway, Type CS†	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"
Beam flange to runway, Type CT†	a14"	a14"	a14"	a14"	a14"	a14"	a14"	a14"
6 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$1190.00	\$1220.00	\$1300.00	\$1480.00	\$1530.00	\$1560.00	\$1650.00	\$1680.00
Price of Plain Crane	970.00	1000.00	1076.00	1206.00	1254.00	1248.00	1370.00	1400.00
Size of Bridge Beam	20" I	20" I	24" I	24" I	24" I	20" I	24" I	24" I
End Truck Symbol	A	A	A	C	C	C	C	C
Max. height above runway, Type CS	24"	24"	28"	28"	28"	24 1/4"	28 1/4"	28 1/4"
Max. height above runway, Type CT*	36"	36"	40"	40"	40"	36 1/4"	40 1/4"	40 1/4"
Beam flange to runway, Type CS†	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"	a 2"
Beam flange to runway, Type CT†	a14"	a14"	a14"	a14"	a14"	a14"	a14"	a14"

LARGER SIZES ON APPLICATION

To compute overall lengths add twice the outside clearance R to the span. The length of crane beams is span minus 2S for type S and span plus 2R for Type T. See page 12 for values of R and S.

Above prices subject to increase when wide tread wheels are used.

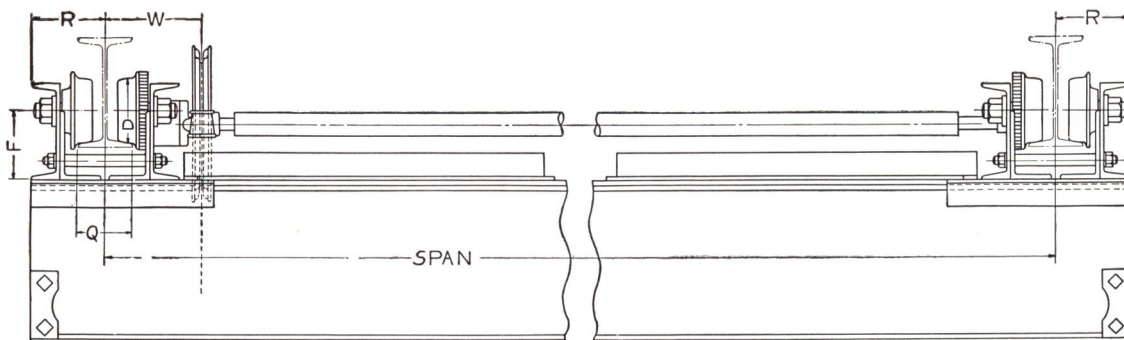
TRAVELING CRANES
BELOW RUNWAY—TYPE U

LIST PRICES AND DATA OF TYPE U

For dimensions indicated
above, please see Page 13.

1/2 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$544.00	\$548.00	\$556.00	\$566.00	\$604.00	\$618.00	\$628.00	\$676.00
Price of Plain Crane.....	498.00	502.00	508.00	518.00	524.00	536.00	546.00	592.00
Size of Bridge Beam.....	5" I	5" I	5" I	6" I	6" I	7" I	7" I	8" I
Beam Flange below Runway, based on 6" or larger Runway Beams.....	7 3/8"	7 3/8"	7 3/8"	8 3/8"	8 3/8"	9 3/8"	9 3/8"	10 3/8"
1 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$548.00	\$552.00	\$560.00	\$570.00	\$618.00	\$628.00	\$642.00	\$696.00
Price of Plain Crane.....	502.00	506.00	512.00	522.00	538.00	546.00	560.00	612.00
Size of Bridge Beam.....	6" I	6" I	7" I	7" I	8" I	8" I	10" I	10" I
Beam Flange below Runway, based on 7" or larger Runway Beams.....	8 3/8"	8 3/8"	9 3/8"	9 3/8"	10 3/8"	10 3/8"	12 3/8"	12 3/8"
1 1/2 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$620.00	\$624.00	\$632.00	\$640.00	\$690.00	\$700.00	\$714.00	\$768.00
Price of Plain Crane.....	574.00	578.00	584.00	592.00	610.00	618.00	632.00	684.00
Size of Bridge Beam.....	7" I	7" I	8" I	8" I	10" I	10" I	10" I	12" I
Beam Flange below Runway, based on 7" or larger Runway Beams.....	9 3/8"	9 3/8"	10 3/8"	10 3/8"	12 3/8"	12 3/8"	12 3/8"	14 3/8"
2 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$700.00	\$708.00	\$736.00	\$744.00	\$810.00	\$830.00	\$872.00	\$972.00
Price of Plain Crane.....	634.00	640.00	660.00	676.00	704.00	720.00	764.00	860.00
Size of Bridge Beam.....	8" I	8" I	8" I	10" I	10" I	10" I	12" I	12" I
Beam Flange below Runway, based on 10" or larger Runway Beams.....	10 1/2"	10 1/2"	10 1/2"	12 1/2"	12 1/2"	12 1/2"	14 1/2"	14 1/2"
3 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$780.00	\$788.00	\$810.00	\$824.00	\$890.00	\$910.00	\$952.00	\$1052.00
Price of Plain Crane.....	714.00	720.00	740.00	756.00	784.00	800.00	844.00	940.00
Size of Bridge Beam.....	10" I	10" I	10" I	12" I	12" I	12" I	15" I	15" I
Beam Flange below Runway, based on 10" or larger Runway Beams.....	12"	12"	12"	14"	14"	14"	17"	17"
4 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$880.00	\$890.00	\$910.00	\$940.00	\$1010.00	\$1040.00	\$1084.00	\$1178.00
Price of Plain Crane.....	810.00	820.00	840.00	868.00	892.00	920.00	960.00	1040.00
Size of Bridge Beam.....	10" I	10" I	12" I	12" I	15" I	15" I	15" I	18" I
Beam Flange below Runway, based on 10" or larger Runway Beams.....	12"	13"	15"	15"	18"	18"	18"	21"
5 TON								
SPAN IN FEET	9	11	13	15	17	19	21	23
Price of Geared Crane.....	\$946.00	\$956.00	\$980.00	\$1012.00	\$1090.00	\$1120.00	\$1166.00	\$1254.00
Price of Plain Crane.....	870.00	880.00	902.00	932.00	960.00	990.00	1034.00	1120.00
Size of Bridge Beam.....	12" I	12" I	12" I	15" I	15" I	15" I	18" I	18" I
Beam Flange below Runway, based on 12" or larger Runway Beams.....	15 1/4"	15 3/8"	15 3/8"	18 3/8"	18 3/8"	18 3/8"	21 3/8"	21 3/8"
6 TON—prices on application								

TRAVELING CRANES BELOW RUNWAY—TYPE U



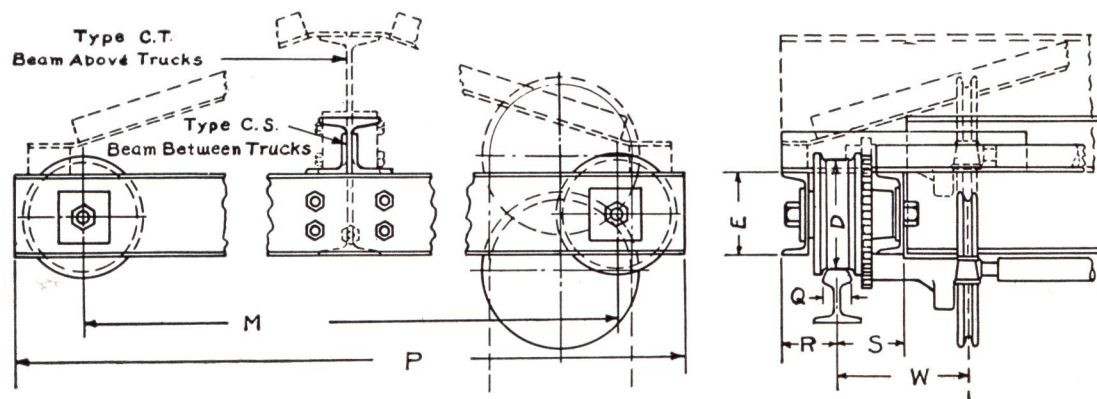
LIST PRICES AND DATA OF TYPE U

For dimensions indicated
above, please see Page 13.

1/2 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$688.00	\$704.00	\$728.00	\$810.00	\$870.00	\$880.00	\$906.00	\$960.00
Price of Plain Crane	604.00	618.00	640.00	692.00	750.00	760.00	784.00	836.00
Size of Bridge Beam	8" I	10" I	10" I	10" I	7" I	7" I	7" I	8" I
Beam Flange below Runway, based on 6" or larger Runway Beams	10 5/8"	12 5/8"	12 5/8"	12 5/8"	12 5/8"	12 5/8"	12 5/8"	14 5/8"
1 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$706.00	\$736.00	\$750.00	\$832.00	\$882.00	\$920.00	\$942.00	\$1016.00
Price of Plain Crane	620.00	650.00	662.00	714.00	762.00	800.00	820.00	892.00
Size of Bridge Beam	10" I	12" I	12" I	12" I	8" I	8" I	8" I	10" I
Beam Flange below Runway, based on 7" or larger Runway Beams	12 3/8"	14 3/8"	14 3/8"	14 3/8"	14 3/8"	14 3/8"	14 3/8"	14 3/8"
1 1/2 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$780.00	\$810.00	\$820.00	\$904.00	\$954.00	\$992.00	\$1014.00	\$1088.00
Price of Plain Crane	696.00	724.00	732.00	786.00	834.00	872.00	892.00	964.00
Size of Bridge Beam	12" I	15" I	15" I	15" I	9" I	9" I	9" I	9" I
Beam Flange below Runway, based on 7" or larger Runway Beams	14 3/8"	17 3/8"	17 3/8"	17 3/8"	14 3/8"	17 3/8"	17 3/8"	17 3/8"
2 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$1000.00	\$1020.00	\$1126.00	\$1248.00	\$1300.00	\$1330.00	\$1406.00	\$1432.00
Price of Plain Crane	890.00	908.00	1014.00	1100.00	1148.00	1180.00	1252.00	1276.00
Size of Bridge Beam	15" I	15" I	15" I	15" I	15" I	15" I	15" I	15" I
Beam Flange below Runway, based on 10" or larger Runway Beams	17 1/2"	17 1/2"	17 1/2"	17 1/2"	17 1/2"	17 1/2"	17 1/2"	17 1/2"
3 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$1084.00	\$1100.00	\$1206.00	\$1328.00	\$1380.00	\$1410.00	\$1483.00	\$1512.00
Price of Plain Crane	974.00	988.00	1094.00	1180.00	1228.00	1260.00	1332.00	1356.00
Size of Bridge Beam	15" I	18" I	18" I	18" I	15" I	18" I	18" I	18" I
Beam Flange below Runway, based on 10" or larger Runway Beams	17"	20"	20"	20"	17"	20"	20"	20"
4 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$1200.00	\$1246.00	\$1310.00	\$1510.00	\$1560.00	\$1600.00	\$1630.00	\$1660.00
Price of Plain Crane	1070.00	1120.00	1180.00	1340.00	1390.00	1420.00	1450.00	1480.00
Size of Bridge Beam	18" I	18" I	18" I	20" I	20" I	10" I	10" I	10" I
Beam Flange below Runway, based on 10" or larger Runway Beams	21"	21"	21"	23"	23"	21"	23"	23"
5 TON								
SPAN IN FEET	25	27	29	31	33	35	37	39
Price of Geared Crane	\$1286.00	\$1340.00	\$1408.00	\$1628.00	\$1684.00	\$1720.00	\$1750.00	\$1782.00
Price of Plain Crane	1152.00	1204.00	1270.00	1440.00	1494.00	1530.00	1560.00	1590.00
Size of Bridge Beam	18" I	20" I	20" I	24" I	24" I	10" I	10" I	12" I
Beam Flange below Runway, based on 12" or larger Runway Beams	21 3/8"	23 3/8"	23 3/8"	27 3/8"	27 3/8"	23 3/8"	23 3/8"	23 3/8"
6 TON—prices on application								

TRAVELING CRANE END TRUCKS

ABOVE RUNWAY—TYPE C



TYPE C CRANE END TRUCKS

Where the customer has facilities for the final assembly of a crane it is often desirable to purchase Harrington End Trucks and attach them to a Crane Beam obtained locally thus saving the freight item on the beam.

The prices below for Type C End Trucks include all connecting angles, diagonal braces, bolts, etc., that are necessary to complete the crane. A

drawing will be furnished showing the size for the beam and also giving information for assembly.

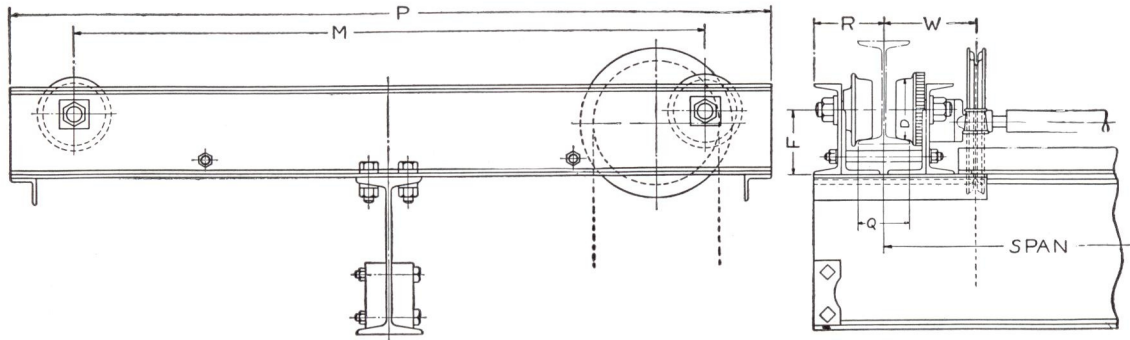
Prices for Geared Crane End Trucks include the traversing gearing, sheave wheel with pendant chain and shaft support brackets. The customer must supply the necessary length of $1\frac{1}{4}$ " standard steel pipe and attach it between the pinion couplings.

Capacity in Tons	Symbol for End Trucks	Maximum Span of Crane on which used	List Price of Set of End Trucks, Angles and Braces		Limiting Dimensions						
			GEARED	PLAIN	E	D	M	P	R	S	W
$\frac{1}{2}$ and 1	C2-A	0 to 15'	\$470.00	\$330.00	6"	8"	4' 0"	4' 10"	$\frac{Q}{2} + 3\frac{1}{4}"$	$\frac{Q}{2} + 3\frac{3}{4}"$	$\frac{Q}{2} + 8\frac{1}{2}"$
	C2-A	Over 15 to 21'	500.00	330.00	6"	8"	4' 0"	4' 10"			
	C2-B	Over 21 to 29'	540.00	370.00	6"	8"	5' 0"	5' 10"			
	C2-C	Over 29'	636.00	432.00	6"	8"	6' 0"	6' 10"			
$1\frac{1}{2}$ and 2	C4-A	0 to 15'	560.00	420.00	8"	12"	4' 6"	5' 8 $\frac{1}{2}"$	$\frac{Q}{2} + 3\frac{1}{2}"$	$\frac{Q}{2} + 4\frac{3}{8}"$	$\frac{Q}{2} + 9\frac{1}{2}"$
	C4-A	Over 15 to 21'	600.00	420.00	8"	12"	4' 6"	5' 8 $\frac{1}{2}"$			
	C4-B	Over 21 to 29'	670.00	500.00	8"	12"	5' 0"	6' 2 $\frac{1}{2}"$			
	C4-C	Over 29'	770.00	560.00	8"	12"	6' 0"	7' 2 $\frac{1}{2}"$			
3 and 4	C8-A	0 to 15'	650.00	510.00	10"	14"	4' 6"	5' 10 $\frac{1}{2}"$	$\frac{Q}{2} + 3\frac{13}{16}"$	$\frac{Q}{2} + 4\frac{13}{16}"$	$\frac{Q}{2} + 10\frac{1}{4}"$
	C8-A	Over 15 to 21'	700.00	510.00	10"	14"	4' 6"	5' 10 $\frac{1}{2}"$			
	C8-B	Over 21 to 29'	840.00	650.00	10"	14"	5' 0"	6' 4 $\frac{1}{2}"$			
	C8-C	Over 29'	970.00	750.00	10"	14"	6' 0"	7' 4 $\frac{1}{2}"$			
5 and 6	C12-A	0 to 15'	770.00	620.00	12"	16"	5' 0"	6' 7"	$\frac{Q}{2} + 4\frac{1}{4}"$	$\frac{Q}{2} + 5\frac{1}{8}"$	$\frac{Q}{2} + 10\frac{7}{8}"$
	C12-A	Over 15 to 21'	840.00	620.00	12"	16"	5' 0"	6' 7"			
	C12-B	Over 21 to 29'	930.00	720.00	12"	16"	5' 0"	6' 7"			
	C12-C	Over 29'	1130.00	880.00	12"	16"	6' 0"	7' 7"			

LARGER SIZES ON APPLICATION

*Q—Width of head of rail or structural section up to 8", upon which crane will run.

TRAVELING CRANE END TRUCKS BELOW RUNWAY—TYPE U



TYPE U CRANE END TRUCKS

Harrington End Trucks for Type U Cranes to run on the lower flanges of I-beam or double channel runways, can be quite easily attached by the customer to a crane beam purchased locally, thereby saving transportation charges.

The prices below include the end members assembled ready for attachment on the crane beam, together with all diagonal braces, gearing,

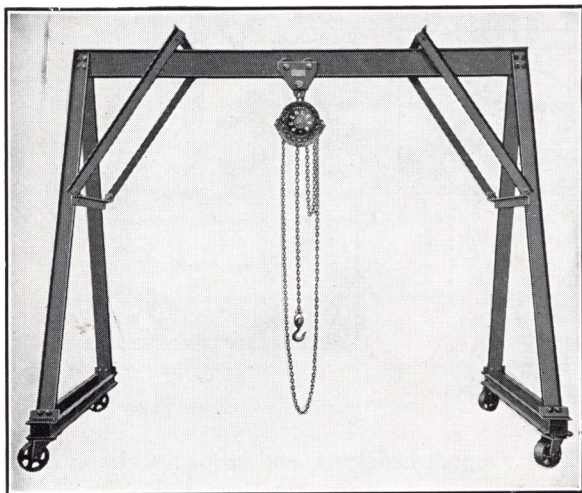
shaft support brackets, end stops and bolts that are necessary to complete the crane. The customer must supply the necessary length of $1\frac{1}{4}$ " steel pipe and attach it between the pinion couplings.

A drawing will be furnished showing the size for the beam and also giving information for assembly.

Capacity in Tons	Symbol for End Trucks	List Price of Set of End Trucks, Angles and Braces		Size of I-beam Runway	Limiting Dimensions					
		GEARED	PLAIN		F	D	M	P	R	W
$\frac{1}{2}$	$\left\{ \begin{array}{l} \text{U 1- 5"} \\ \text{U 1- 6"} \end{array} \right\}$	\$518.00	\$478.00	$\left\{ \begin{array}{l} 5" \\ 6" \text{ and larger} \end{array} \right\}$	$\left\{ \begin{array}{l} 5" \\ 5" \end{array} \right\}$	$\left\{ \begin{array}{l} 3\frac{3}{8}" \\ 4\frac{1}{4}" \end{array} \right\}$	$\left\{ \begin{array}{l} M+10" \\ M+10" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+3\frac{3}{8}" \\ \frac{Q}{2}+3\frac{3}{8}" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+4\frac{3}{8}" \\ \frac{Q}{2}+4\frac{3}{8}" \end{array} \right\}$	
1	$\left\{ \begin{array}{l} \text{U 2- 6"} \\ \text{U 2- 7"} \end{array} \right\}$	518.00	478.00	$\left\{ \begin{array}{l} 6" \\ 7" \text{ and larger} \end{array} \right\}$	$\left\{ \begin{array}{l} 5" \\ 5" \end{array} \right\}$	$\left\{ \begin{array}{l} 4\frac{1}{4}" \\ 4\frac{3}{4}" \end{array} \right\}$	$\left\{ \begin{array}{l} M+10" \\ M+10" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+3\frac{3}{8}" \\ \frac{Q}{2}+3\frac{3}{8}" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+4\frac{3}{8}" \\ \frac{Q}{2}+4\frac{3}{8}" \end{array} \right\}$	
$1\frac{1}{2}$	$\left\{ \begin{array}{l} \text{U 3- 6"} \\ \text{U 3- 7"} \end{array} \right\}$	530.00	490.00	$\left\{ \begin{array}{l} 6" \\ 7" \text{ and larger} \end{array} \right\}$	$\left\{ \begin{array}{l} 5" \\ 5" \end{array} \right\}$	$\left\{ \begin{array}{l} 4\frac{1}{4}" \\ 4\frac{3}{4}" \end{array} \right\}$	$\left\{ \begin{array}{l} M+10" \\ M+10" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+3\frac{3}{8}" \\ \frac{Q}{2}+3\frac{3}{8}" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+4\frac{3}{8}" \\ \frac{Q}{2}+4\frac{3}{8}" \end{array} \right\}$	
2	$\left\{ \begin{array}{l} \text{U 4- 7"} \\ \text{U 4- 8"} \\ \text{U 4- 9"} \end{array} \right\}$	654.00	600.00	$\left\{ \begin{array}{l} 7" \\ 8" \\ 10" \text{ and larger} \end{array} \right\}$	$\left\{ \begin{array}{l} 6\frac{1}{8}" \\ 6\frac{1}{8}" \end{array} \right\}$	$\left\{ \begin{array}{l} 4\frac{3}{4}" \\ 5\frac{5}{8}" \\ 6\frac{1}{2}" \end{array} \right\}$	$\left\{ \begin{array}{l} M+12" \\ M+12" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+3\frac{3}{8}" \\ \frac{Q}{2}+3\frac{3}{8}" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+5\frac{1}{8}" \\ \frac{Q}{2}+5\frac{1}{8}" \end{array} \right\}$	
3 & 4	$\left\{ \begin{array}{l} \text{U 6\&8- 8"} \\ \text{U 6\&8-10"} \end{array} \right\}$	720.00	670.00	$\left\{ \begin{array}{l} 8" \text{ and } 9" \\ 10" \text{ and larger} \end{array} \right\}$	$\left\{ \begin{array}{l} 6\frac{1}{8}" \\ 6\frac{1}{8}" \end{array} \right\}$	$\left\{ \begin{array}{l} 5\frac{5}{8}" \\ 7\frac{3}{8}" \end{array} \right\}$	$\left\{ \begin{array}{l} M+12" \\ M+12" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+3\frac{3}{8}" \\ \frac{Q}{2}+3\frac{3}{8}" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+5\frac{1}{8}" \\ \frac{Q}{2}+5\frac{1}{8}" \end{array} \right\}$	
5 & 6	$\left\{ \begin{array}{l} \text{U 10\&12-12"} \end{array} \right\}$	870.00	800.00	$\left\{ \begin{array}{l} 12" \text{ and larger} \end{array} \right\}$	$\left\{ \begin{array}{l} 7\frac{3}{4}" \\ 7\frac{3}{4}" \end{array} \right\}$	$\left\{ \begin{array}{l} 8\frac{1}{8}" \end{array} \right\}$	$\left\{ \begin{array}{l} M+13" \\ M+13" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+4\frac{1}{2}" \\ \frac{Q}{2}+4\frac{1}{2}" \end{array} \right\}$	$\left\{ \begin{array}{l} \frac{Q}{2}+5\frac{1}{4}" \\ \frac{Q}{2}+5\frac{1}{4}" \end{array} \right\}$	

*Q—Width of head of rail or structural section up to 8", upon which crane will run.

GANTRY CRANE

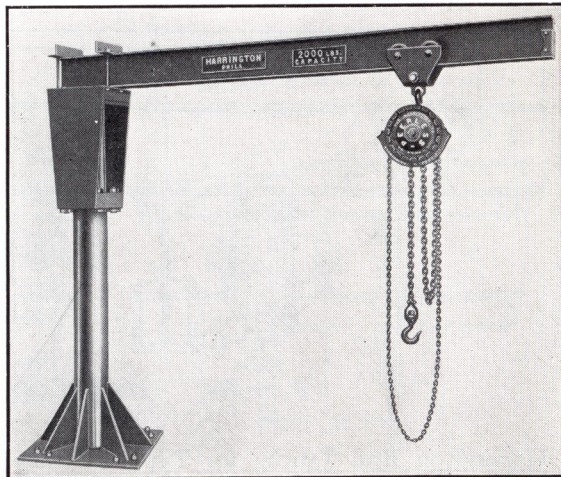


A gantry or self-contained crane is often desirable for use in buildings where there is not sufficient strength in the roof to permit the suspension of an overhead track or crane runway. It also has a wide field of usefulness for erecting machinery, lifting up one end of automobiles, or for general operation in paved storage yards.

The frame is entirely of structural steel properly braced to withstand all stresses due to the rated load. Arc welding is used at all permanent joints and bolts are used where disconnections must be made for shipping. Caster wheels shown above are regular equipment but plain rigid wheels can also be furnished. State the load capacity, width and height desired.

To complete the gantry, some combination of Harrington Hoist and Trolley should be added. A Peerless Hoist carried on a Model D, C or F trolley or a Peerless Trolley Hoist will both lift speedily and with small effort and the Peerless Trolley Hoist will raise a load closer to the beam than any hoist suspended from a trolley. If headroom is not important, the Hoist can be suspended by the regular top hook permitting it to be removed for use elsewhere. If accurate placing of loads is required, it is best to use a geared traverse Model C Trolley which can be furnished in permanent combination with Peerless Hoists if desired.

MAST TYPE JIB CRANE



The mast type of crane, when equipped with a Harrington Hoist and Trolley is a very desirable combination for loading work onto machines or cars, lifting heavy flasks in foundries, or raising loads from pits.

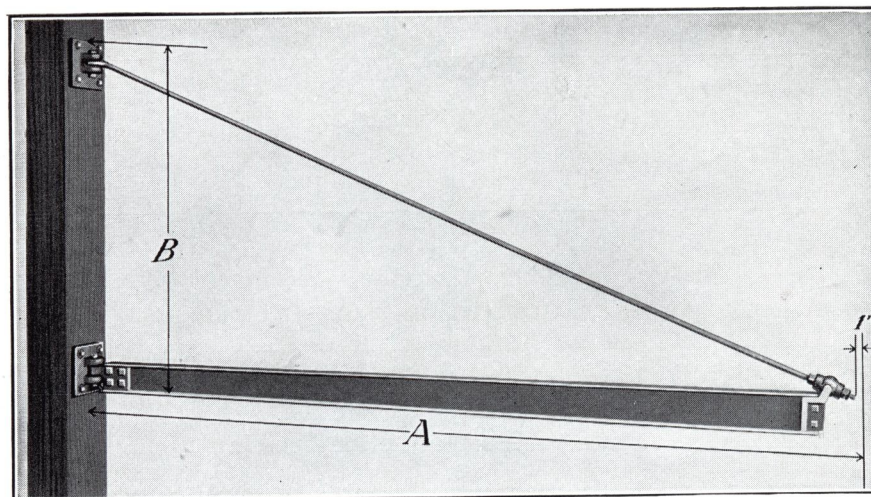
The mast is heavy walled steel pipe and the arm bracket is made entirely of rolled steel sections securely arc-welded together with a ball thrust bearing in the top and four rollers bearing against the mast. Bases of special design can be furnished.

Many combinations of Harrington Hoists and Trolleys may be selected for use on this crane. If an Electric Hoist is used suitable current conveying means can be furnished, the style depending upon the amount of rotation required. For some work, a Peerless Hoist with extended hand wheel and combined with trolleys, is very desirable.

The prices below are for mast type cranes with regular flat base. Cranes with special features will be quoted on request.

Capacity in Tons	Price for 6 ft. radius and 6 ft. height	Price per foot for increase of		Maximum Radius overall	Maximum Height under beam
		Overall Radius	Height		
1/4	\$410.00	\$7.00	\$12.00	10 ft.	10 ft.
1/2	410.00	7.00	12.00	10 ft.	10 ft.
1	450.00	8.00	14.00	10 ft.	10 ft.

JIB CRANE WALL TYPE



This crane can be attached to a wall or post and when equipped with a hand or electric hoist and trolley is very convenient for handling work in foundries, over machine tools or on erecting floors.

Its use often saves long periods of waiting for a traveling crane, and its position on the side wall need not interfere with the traveling crane movement.

The arm is constructed of I-beam and is supported by a large tie rod attached to the outer end of the beam by a heavy steel casting. The crane can be equipped with nearly all types of Harrington hoists and trolleys.

The prices below are for the crane only, to which should be added the hoist and trolley desired. The dimensions given can be varied if necessary; although, it is desirable to keep the hinge plate for tie rod as high as possible. Unless otherwise specified the hinge brackets will be drilled to our dimensions.

Capacity in Tons	Regular length of Crane (A) †	Effective Radius with Plain Trolley on regular length crane	Maximum length	Height of top support for regular length of jib (B)*	Increase in dimension (B) per extra foot of jib	Price for regular length, Crane only	Price per extra ft. of length
1/4	10'	8' 11 1/2"	20'	3' 10"	5"	\$236.00	\$7.00
1/2	10'	8' 11"	20'	3' 10"	5"	236.00	7.00
1	10'	8' 10"	20'	4' 3"	5"	248.00	8.00
1 1/2	10'	8' 10"	20'	4' 3"	5"	260.00	9.00
2	10'	8' 8 1/2"	20'	4' 11"	6"	272.00	10.00

†From face of post to 1 inch beyond outer end for clearance.

*From bottom of beam to top of tie rod hinge plate.

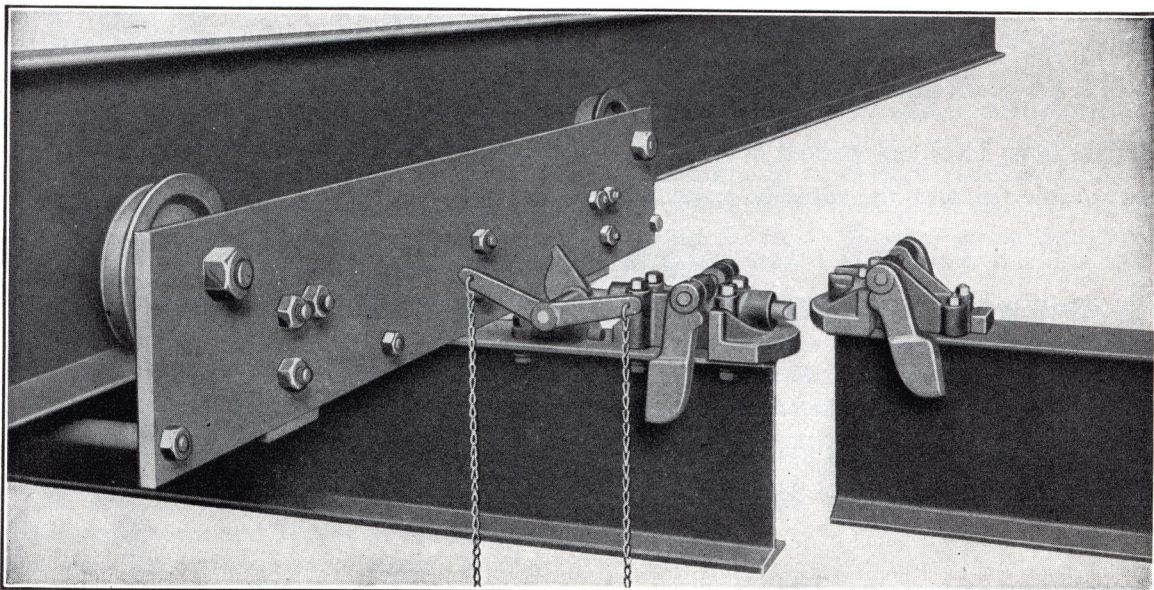
APPROXIMATE WEIGHT OF END TRUCKS AND FITTINGS

To get total weight of crane, add the weight of the beam and drive shaft. The drive shaft weighs $2\frac{1}{4}$ lbs. per foot.

Capacity in Tons	J	H	C		U	
			PLAIN	GEARED	PLAIN	GEARED
$\frac{1}{2}$	200	250	500	600	400	450
1	250	250	550	650	450	500
$1\frac{1}{2}$	300	350	900	950	450	500
2	350	400	950	1050	500	550
3	...	450	1150	1250	600	650
4	...	600	1200	1300	650	700
5	...	...	1500	1600	1000	1050
6	...	...	1550	1650	1050	1100

RECOMMENDED SIZES OF CRANE RAIL FOR USE WITH TYPE CS & CT CRANES

$\frac{1}{2}$ & 1 Ton		$1\frac{1}{2}$ & 2 Ton		3 & 4 Ton		5 & 6 Ton	
20#	$1\frac{11}{16}$ head $2\frac{5}{8}$ high	25#	$1\frac{1}{2}$ head $2\frac{3}{4}$ high	30#	$1\frac{11}{16}$ head $3\frac{1}{8}$ high	40#	$1\frac{7}{8}$ head $3\frac{1}{2}$ high



WHERE SPUR TRACKS ARE DESIRABLE IN CONJUNCTION WITH A CRANE
A TRANSFER LOCK SHOULD BE USED ON THE CRANE AND EACH SPUR TRACK

We will be pleased to give our recommendations and quotations on cranes not covered by our standard products. No obligation, of course.

CHAIN DATA

Harrington Chain is one of the main factors for popularity of Harrington Hoists among users. Today's product is made with all the advantages of scientific research embracing greater durability, shock resistance and larger factor of safety.

Every link of Harrington Hoist Chain is properly formed to fit at the bearing surface with the next link and to seat properly in the sheave pockets. Both hand and load chains are electrically butt welded on the side of the links in special automatic machines which insure full area welds with smooth finish that pass through the operators hands unnoticed. Extreme care is taken to make every link to the exact pitch length so that the chain will not climb out of the wheel pockets either when loaded or unloaded. All chain receives its first proof test immediately after welding.

Harrington Peerless Load Chain is made from a special grade of High Carbon Steel, and after welding is accurately Heat Treated by the most scientific methods for Great Strength and Resistance to Wear and Fatigue.

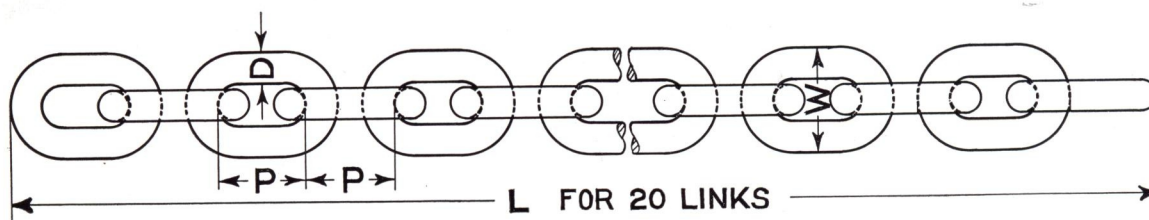
On very old hoists the load chain was hand forged from wrought iron rods and fire welded at the end of the link. These iron chains should be annealed periodically to protect against crystallization. From 1920 to 1930 load chains were electrically welded steel but not heat treated. Annealing of steel load chain reduces its strength and is not recommended.

Hand Chains and Differential Chains are made by the same careful methods but are not heat treated.

Every Hand Chain has one unwelded joiner link to facilitate removal from the wheel and chain guide.

Increased life and reduced wear will be obtained from any chain that is slightly lubricated at the juncture points. A light cup grease is a good lubricant and after application the excess can be wiped from the outside surface.

Only Harrington chain will fit properly on Harrington Hoists; hand chains and load chains of same size wire do not have links of the same pitch lengths.



Chain Size D	Type of Chain	Pitch Length Inside Link P	Overall Length of 20 Links L	Outside Width of Link W	Weight per Foot lbs.	Explanation of Symbols
.180"	H	.734"	15.04"	.608"	.261	H—Hand Chain of low carbon steel electrically welded.
.203"	H	.702"	14.45"	.675"	.363	
1/4"	D	.723"	14.96"	.825"	.580	
3/8"	H.S.L.	.844"	17.41"	.885"	.639	H.S.L.—Hand Chain of short or normal pitch length.
1/2"	H.L.L.	1.041"	21.35"	.890"	.595	
5/8"	A.H.L.L.	1.041"	21.35"	.890"	.194	A.H.L.L.—Aluminum Hand Chain.
3/4"	L	.857"	17.67"	.885"	.626	
9/16"	D	.736"	15.28"	.930"	.780	H.L.L.—Hand Chain, long link or greater pitch length, used only on Peerless Packet Hoists.
5/8"	L.S.L.	.736"	15.28"	.930"	.780	
11/16"	H	.942"	19.465"	1.040"	.890	
3/4"	L.L.L.	.978"	20.185"	1.040"	.870	L—Load Chain, differs in pitch length and in strength from hand chain.
13/16"	L.S.L.	.864"	17.905"	1.040"	.920	
1"	D	.864"	17.905"	1.040"	.920	L.S.L.—Load Chain, short link.
1 1/8"	H	1.193"	24.610"	1.250"	1.270	L.L.L.—Load Chain, long or regular link.
1 1/4"	L	1.065"	22.050"	1.250"	1.300	
1 1/2"	D	.951"	19.770"	1.186"	1.410	
1 3/4"	L	1.100"	22.810"	1.312"	1.610	D—Short pitch, mild steel load chain, used primarily on Differential Hoists.
1 7/8"	L	1.245"	25.775"	1.460"	1.780	
2"	D	1.188"	24.635"	1.410"	1.830	
2 1/8"	L	1.391"	28.820"	1.690"	2.370	△—High carbon steel, heat treated for strength and resistance to wear. Electrically welded.
2 1/4"	L	1.490"	30.925"	1.840"	3.010	
2 3/8"	L	1.677"	34.790"	2.030"	3.750	
2 1/2"	L	2.144"	44.505"	2.594"	6.110	○—Iron or mild steel, fire welded.

LENGTHS OF CHAINS ON HARRINGTON HOISTS AND TROLLEYS

To determine actual length of **LOAD CHAIN** for any desired distance of lift (sometimes called travel of hook) it is necessary to allow for the chain that remains on load sheave and around idlers when the hook is in the lowest position. Multiply the desired lift by the number of strands and add the factor fl shown in the table.

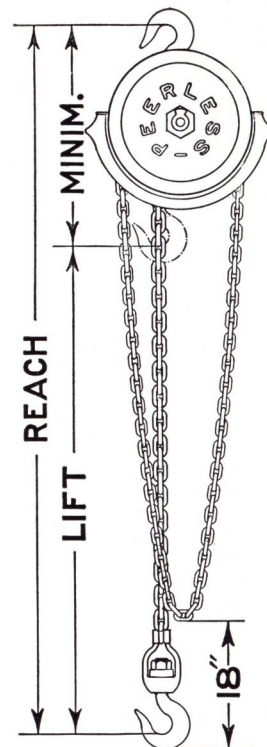
$$\text{Load Chain Length} = [\text{Actual lift} \times \text{strands}] \text{ plus fl}$$

HAND CHAIN loop should be eighteen inches above the operating floor level except under special conditions. Hand chain lengths to bring the loop 18" above the floor are determined as follows:

$$\text{Hand Chain Length} = [\text{Highest position of load hook operating floor level} \times \text{two}] \text{ plus or minus fh}$$

It is very important that load chains be long enough for the hook to reach the lowest point of travel before all the slack loop behind the load wheel is used up. This prevents damage to the hoist mechanism from sudden snubbing caused by short load chains. For average installations order the load chain of sufficient length so that the hook will reach the floor. If hand chain touches the floor it picks up dirt and carries it into pockets of hand wheel.

For lifting from pits or for handling high loads it is often advisable to vary the load chain or hand chain length from the regular.



Type of Hoist	Capacity of Hoist	Regular Hook Lift	LOAD CHAIN				HAND CHAIN§		
			Size of Load Chain	Strands of Load Chain	fl *	Length of Load Chain for Std. Lift*	Size of Hand Chain§	fh	Length of Hand Chain for Std. Lift
Peerless Hoists Models C, D, F, Trolley Hoist Type H	1/4	8'	11/16" △	1	1' 2"	9' 2"	.203"	— 5"	15' 7"
	1/2	8'	5/16" △	1	1' 2 1/2"	9' 2 1/2"	.203"	— 5"	15' 7"
	1	8'	3/8" △	1	1' 4"	9' 4"	.203"	— 2"	16' 2"
	1 1/2	8'	7/16" △	1	1' 5 1/4"	9' 5 1/4"	11/64"	9 3/4"	16' 9 3/4"
	2	9'	1/2" △	1	1' 8"	10' 8"	13/64"	7 1/4"	18' 7 1/4"
	3S	10'	5/16" △	1	1' 11"	11' 11"	15/64"	2' 3"	22' 3"
	3D	10'	7/16" △	2	* 3' 3 3/4"	* 23' 3 3/4"	17/64"	1' 10"	21' 10"
	4	10'	1/2" △	2	* 4' 0"	* 24' 0"	19/64"	2' 7 1/2"	22' 7 1/2"
	5	12'	9/16" △	2	* 4' 5"	* 28' 5"	21/64"	3' 10"	27' 10"
	6	12'	5/8" △	2	* 4' 7 1/2"	* 28' 7 1/2"	23/64"	4' 1 1/2"	28' 1 1/2"
	8	12'	1/2" △	3	6' 3 3/4"	42' 3 3/4"	25/64"	4' 10"	28' 10"
	10	12'	5/8" △	3	6' 10"	42' 10"	27/64"	5' 4 1/2"	29' 4 1/2"
Peerless Packet Hoist & Trolley Hoist	1/2	8'	9/16" S.L. △	1	1' 1"	9' 1"	11/64" L.L.	— 4"	15' 8"
	1	8'	5/16" S.L. △	1	1' 1"	9' 1"	13/64" L.L.	— 4"	15' 8"
	2	9'	3/8" S.L. △	2	2' 0"	20' 0"	15/64" L.L.	8"	18' 8"
Troll. Hoist Type B	1/4	8'	11/16" △	1	10"	8' 10"	.203"	— 5"	15' 7"
	1/2	8'	5/16" △	1	12"	9'	.203"	— 4"	15' 8"
	1	8'	3/8" △	1	12"	9'	11/64"	— 0"	16'
	1 1/2	8'	7/16" △	1	1' 6"	9' 6"	13/64"	1'	17'
	2	9'	1/2" △	1	1' 7 1/2"	10' 7 1/2"	15/64"	1' 4"	19' 4"

§All 11/16" Hand Chains are S.L. (.844 Pitch) unless otherwise noted.

LENGTHS OF CHAINS ON HARRINGTON HOISTS AND TROLLEYS—Continued

Type of Hoist	Capacity of Hoist	Regular Hook Lift	LOAD CHAIN				HAND CHAIN§		
			Size of Load Chain	Strands of Load Chain	fl*	Length of Load Chain for Std. Lift*	Size of Hand Chain§	fh	Length of Hand Chain for Std. Lift
Trolley Hoist Type CH	2	9'	$\frac{7}{16}$ " Δ	2	4' 1"	22' 1"	$\frac{11}{16}$ "	1' 4"	19' 4"
	3	10'	$\frac{7}{16}$ " Δ	2	4' 1"	24' 1"	$\frac{11}{16}$ "	1' 4"	21' 4"
	4	10'	$\frac{1}{2}$ " Δ	2	4' 6"	24' 6"	$\frac{11}{16}$ "	1' 11"	21' 11"
	5	12'	$\frac{9}{16}$ " Δ	2	5' 2"	29' 2"	$\frac{11}{16}$ "	2' 2"	26' 2"
	6	12'	$\frac{9}{16}$ " Δ	2	5' 2"	29' 2"	$\frac{11}{16}$ "	2' 2"	26' 2"
	8	12'	$\frac{1}{2}$ " Δ	4	6' 1"	54' 1"	$\frac{11}{16}$ "	2' 2"	26' 2"
	10	12'	$\frac{9}{16}$ " Δ	4	6' 3"	54' 3"	$\frac{11}{16}$ "	2' 4"	26' 4"
	12	12'	$\frac{9}{16}$ " Δ	4	6' 3"	54' 3"	$\frac{11}{16}$ "	2' 4"	26' 4"
Screw Hoist	$\frac{1}{4}$	8'	$\frac{1}{4}$ " D	2	2' 3 $\frac{1}{2}$ "	18' 3 $\frac{1}{2}$ "	$\frac{1}{8}$ "	— 9 $\frac{1}{2}$ "	15' 2 $\frac{1}{2}$ "
	$\frac{1}{2}$	8'	$\frac{1}{4}$ " Δ	2	2' 9"	18' 9"	$\frac{1}{8}$ "	— 2"	15' 10"
	1	8'	$\frac{5}{16}$ " Δ L.L.	2	2' 9"	18' 9"	$\frac{1}{8}$ "	1 $\frac{1}{2}$ "	16' 1 $\frac{1}{2}$ "
	$1\frac{1}{2}$	8'	$\frac{3}{8}$ " Δ	2	2' 10 $\frac{1}{2}$ "	18' 10 $\frac{1}{2}$ "	$\frac{1}{8}$ "	7"	16' 7"
	2	9'	$\frac{13}{32}$ " Δ	2	3' 5"	21' 5"	$\frac{1}{8}$ "	1' 4"	19' 4"
	3	10'	$\frac{7}{16}$ " Δ	2	4' 4"	24' 4"	$\frac{1}{8}$ "	1' 8"	21' 8"
	4	10'	$\frac{1}{2}$ " Δ	2	4' 5 $\frac{1}{2}$ "	24' 5 $\frac{1}{2}$ "	$\frac{5}{16}$ "	2' 11"	22' 11"
	5	12'	$\frac{9}{16}$ " Δ	2	5' 5"	29' 5"	$\frac{3}{8}$ "	3' 8"	27' 8"
	6	12'	$\frac{5}{8}$ " Δ	2	5' 8"	29' 8"	$\frac{3}{8}$ "	3' 10"	27' 10"
	8	12'	$\frac{13}{16}$ " Δ	2	5' 8"	29' 8"	$\frac{3}{8}$ "	3' 5"	27' 5"
	10	12'	$\frac{13}{16}$ " Δ	2	5' 8"	29' 8"	$\frac{3}{8}$ "	3' 11"	27' 11"
Differential Hoist	$\frac{1}{4}$	6'	$\frac{1}{4}$ " D	4	add four feet of chain for each extra foot of lift	22'			
	$\frac{1}{2}$	7'	$\frac{1}{4}$ " D	4		26'			
	1	8'	$\frac{9}{32}$ " D	4		30'			
	$1\frac{1}{2}$	8 $\frac{1}{2}$ '	$\frac{5}{16}$ " D	4		33'			
	2	9'	$\frac{3}{8}$ " D	4		36'			
	3	10'	$\frac{7}{16}$ " D	4		38'			
Cum-along	$\frac{3}{4}$	5'	$\frac{11}{16}$ " Δ	1	7"	5' 7"			
	$1\frac{1}{2}$	5'	$\frac{11}{16}$ " Δ	2	14"	11' 2"			
Bear-Cat Elect.	RA	10'	$\frac{9}{32}$ " S.L. Δ	1	2'	12'			
	RC	10'	$\frac{9}{32}$ " S.L. Δ	1	2'	12'			
	RD	10'	$\frac{9}{32}$ " S.L. Δ	1	2'	12'			
	RE	10'	$\frac{5}{16}$ " S.L. Δ	1	2'	12'			
	RF	10'	$\frac{5}{16}$ " S.L. Δ	2	3'	23'			
	RG	10'	$\frac{5}{16}$ " S.L. Δ	2	3'	23'			
Model E Elect.	$\frac{1}{2}$	10'	$\frac{5}{16}$ " L.L. Δ	1	2' 8"	12' 8"			
	1	10'	$\frac{3}{8}$ " Δ	1	2' 8"	12' 8"			

§All $\frac{11}{16}$ " Hand Chains are S.L. (.844 Pitch) unless otherwise noted.

TROLLEY AND HOIST TRAVERSE CHAINS

All use $1\frac{7}{64}$ " H.S.L. .844" Pitch

Capacity of Unit	TROLLEY HOIST H		TROLLEY HOIST CH		TROLLEYS C & E	
	fh	Length for Regular Lift	fh	Length for Regular Lift	fh	Length for Regular Lift
$\frac{1}{2}$	add 1' 3"	17' 3"			1' 4"	17' 4"
$1\frac{1}{2}$		17' 6"			2' 8"	18' 8"
2	1' 11"	19' 11"	1' 0"	19'	3' 2"	19' 2"
3	2' 4"	22' 4"	1' 0"	21'	3' 7"	21' 7"
4	3' 4"	23' 4"	1' 3"	21' 3"	4' 4"	24' 4"
5	3' 11 $\frac{1}{2}$ "	27' 11 $\frac{1}{2}$ "	1' 4"	25' 4"	6' 1"	26' 1"
6	4' 2"	28' 2"	1' 4"	25' 4"	7' 8"	31' 8"
8	5' 1"	29' 1"	1' 6"	25' 6"	8' 2"	32' 2"
10	5' 3"	29' 3"	1' 8"	25' 8"	9' 6"	33' 6"
12			1' 8"	25' 8"	10' 1"	34' 1"
15					10' 9"	34' 9"
20					11' 6"	35' 6"

*Cut all hand chain and load chain except those marked * with end links in the same plane. Cut chains marked * with end links at 90 degrees.

† For each hand chain. 15 to 30 ton capacities have two hand chains.

Δ High Carbon, heat treated.

\odot Iron Chain, fire welded.

D Differential Chain.

S.L. Short Link.

L.L. Long Link.

DIMENSIONS OF HOIST HOOKS

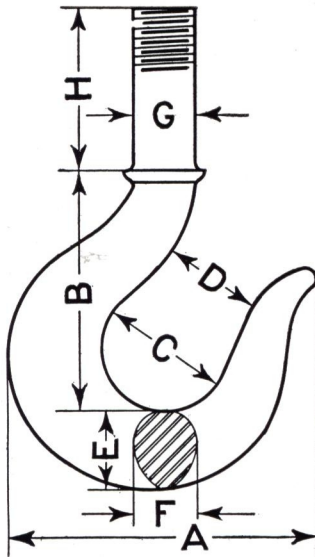


Fig. 1

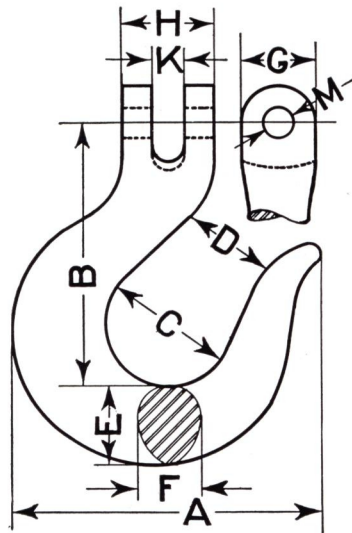


Fig. 2

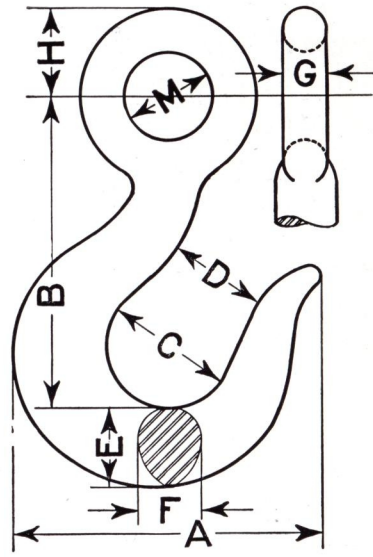
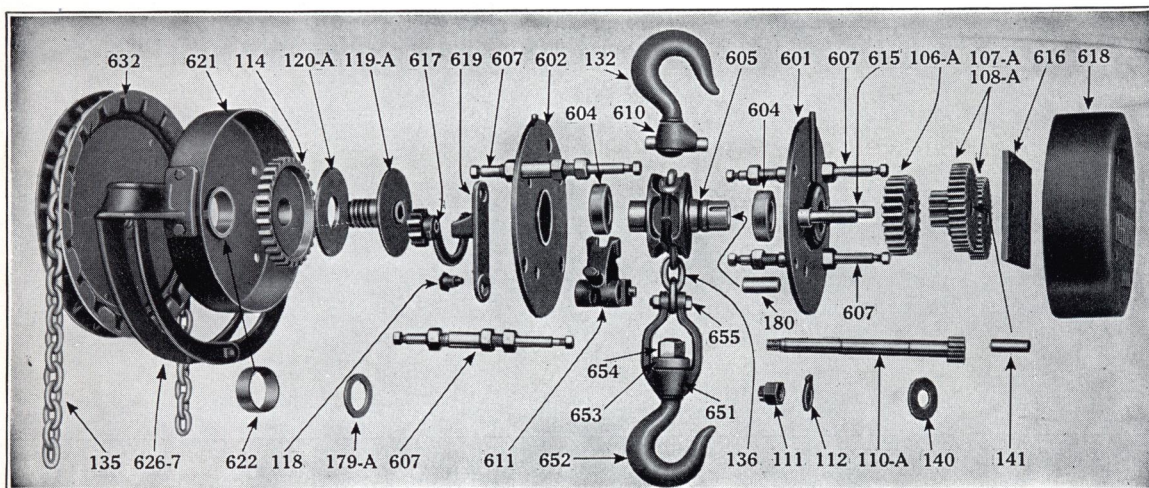


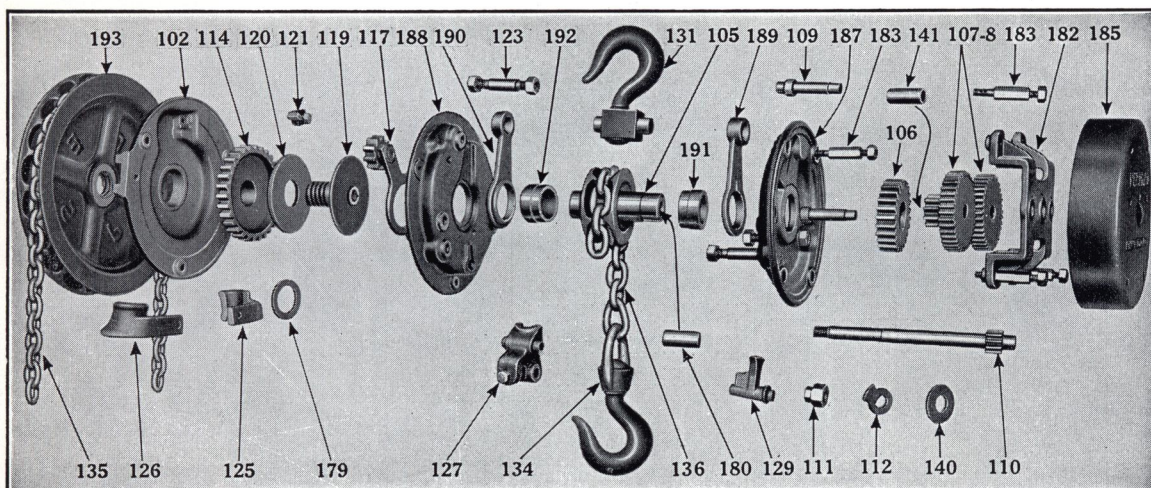
Fig. 3

Hook Symbol	A	B	C	D	E	F	G	H Max.	K	M	Where Used Hoist Type & Capacity in Tons
FIG. 1	3	$3\frac{1}{16}$	$2\frac{7}{16}$	$1\frac{3}{8}$	$1\frac{1}{16}$	$1\frac{5}{16}$	$\frac{9}{16}$	$1\frac{11}{16}$	.....	.....	Screw $\frac{1}{4}$, Diff. $\frac{1}{4}$
	4	$3\frac{3}{16}$	$2\frac{5}{8}$	$1\frac{1}{2}$	$1\frac{1}{8}$	$\frac{7}{8}$	$\frac{5}{8}$	$2\frac{3}{16}$	.....	.....	Peer $\frac{1}{4}$ & $\frac{1}{2}$, Screw $\frac{1}{2}$, Diff. $\frac{1}{2}$, Cum. $\frac{3}{4}$, Packet $\frac{1}{2}$, Bearcat RA & RC
	5	$3\frac{13}{16}$	$2\frac{15}{16}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$1\frac{1}{16}$	$\frac{3}{4}$	$1\frac{3}{4}$	.....	.....	Bearcat RE
	5	$3\frac{13}{16}$	$2\frac{15}{16}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$1\frac{1}{16}$	$\frac{3}{4}$	$2\frac{3}{8}$	.....	.....	Packet 1, Bearcat RA, RC, RD
	6	$4\frac{3}{8}$	$3\frac{1}{4}$	$1\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{3}{16}$	$\frac{7}{8}$	$2\frac{11}{16}$	.....	.....	Peer 1, Screw 1, Diff. 1, Cum. $1\frac{1}{2}$, Mod. E
	7	$4\frac{13}{16}$	$3\frac{5}{8}$	2	$1\frac{1}{2}$	$1\frac{3}{8}$	1	$2\frac{3}{8}$	.....	.....	Elect., $\frac{1}{2}$ & 1
	7	$4\frac{13}{16}$	$3\frac{5}{8}$	2	$1\frac{1}{2}$	$1\frac{3}{8}$	1	$2\frac{15}{16}$	.....	.....	Bearcat RF & RG
	8	$5\frac{9}{16}$	$4\frac{1}{8}$	$2\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{9}{16}$	$1\frac{1}{8}$	$3\frac{1}{4}$	.....	.....	Peer $1\frac{1}{2}$, Screw $1\frac{1}{2}$, Diff. $1\frac{1}{2}$, Packet 2
	9	$6\frac{1}{4}$	$4\frac{5}{8}$	$2\frac{1}{2}$	$1\frac{7}{8}$	$1\frac{13}{16}$	$1\frac{1}{4}$	$3\frac{11}{16}$	.....	.....	Peer 2, Screw 2, Diff. 2
	11	$7\frac{3}{8}$	$5\frac{5}{8}$	3	$2\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{8}$	$4\frac{5}{16}$	.....	.....	Peer 3, Screw 3, Diff. 3
	12	$8\frac{5}{16}$	$6\frac{1}{8}$	$3\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{4}$	$1\frac{1}{2}$	$4\frac{1}{2}$	.....	.....	Peer 4, Screw 4
	13	$9\frac{5}{16}$	$6\frac{3}{4}$	$3\frac{3}{4}$	3	$2\frac{9}{16}$	$1\frac{3}{4}$	$4\frac{9}{16}$	.....	.....	Peer 5, Screw 5
	14	$11\frac{7}{16}$	$7\frac{9}{16}$	$4\frac{1}{8}$	$3\frac{3}{8}$	$2\frac{15}{16}$	2	$5\frac{11}{16}$	.....	.....	Peer 6, Screw 6
	15	$13\frac{3}{8}$	$8\frac{1}{2}$	5	4	$3\frac{5}{16}$	$2\frac{3}{8}$	$5\frac{11}{16}$	.....	.....	Peer 8, Screw 8
	16	15	$9\frac{7}{8}$	$5\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{3}{8}$	$2\frac{3}{4}$	$6\frac{1}{16}$	.....	.....	Peer 10, Screw 10
	16A	15	$9\frac{7}{8}$	$5\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{3}{8}$	$2\frac{3}{4}$	$7\frac{5}{8}$	.....	.....	Peer 15
FIG. 2	103	$3\frac{1}{16}$	$2\frac{7}{8}$	$1\frac{5}{16}$	$1\frac{1}{16}$	$1\frac{5}{16}$	$\frac{9}{16}$	$1\frac{13}{16}$	$\frac{5}{16}$	$\frac{5}{16}$	Cumalong $\frac{3}{4}$
	104	$3\frac{3}{16}$	3	$1\frac{1}{2}$	$1\frac{1}{8}$	$\frac{7}{8}$	$\frac{5}{8}$	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{3}{8}$	.....
	106	$4\frac{3}{8}$	$3\frac{5}{8}$	$1\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{5}{16}$	$\frac{7}{8}$	$1\frac{5}{16}$	$\frac{7}{16}$	$\frac{7}{16}$	.....
	107	$4\frac{7}{8}$	$3\frac{7}{8}$	2	$1\frac{1}{2}$	$1\frac{3}{8}$	1	$1\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	.....
	108	$5\frac{9}{16}$	$4\frac{1}{2}$	$2\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{9}{16}$	$1\frac{1}{8}$	$1\frac{11}{16}$	$\frac{9}{16}$	$\frac{9}{16}$	.....
	109	$6\frac{1}{4}$	$4\frac{7}{8}$	$2\frac{1}{2}$	$1\frac{7}{8}$	$1\frac{13}{16}$	$1\frac{1}{4}$	.....	$\frac{5}{8}$	$\frac{5}{8}$	.....
FIG. 3	23	$3\frac{1}{16}$	$3\frac{3}{16}$	$1\frac{3}{8}$	$1\frac{1}{16}$	$1\frac{5}{16}$	$\frac{9}{16}$	$\frac{7}{8}$	.....	$\frac{7}{8}$	Shock Spr. $\frac{1}{4}$
	24	$3\frac{1}{16}$	$3\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{8}$	$\frac{7}{8}$	$\frac{5}{8}$	1	.....	1	Shock Spr. $\frac{1}{2}$
	26	$4\frac{3}{8}$	$4\frac{3}{8}$	$1\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{5}{16}$	$\frac{7}{8}$	$1\frac{1}{4}$	.....	$1\frac{1}{4}$	Shock Spr. 1, Mod. E. Elect. $\frac{1}{2}$ & 1
	27	$4\frac{13}{16}$	$4\frac{7}{8}$	2	$1\frac{1}{2}$	$1\frac{3}{8}$	1	$1\frac{3}{8}$	.....	$1\frac{3}{8}$	Shock Spr. $1\frac{1}{2}$
	28	$5\frac{9}{16}$	$5\frac{1}{2}$	$2\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{9}{16}$	$1\frac{1}{8}$	$1\frac{1}{2}$	.....	$1\frac{1}{2}$	Shock Spr. 2
	29	$6\frac{1}{4}$	$6\frac{1}{8}$	$2\frac{1}{2}$	$1\frac{7}{8}$	$1\frac{13}{16}$	$1\frac{1}{4}$	$1\frac{5}{8}$	.....	$1\frac{5}{8}$	Shock Spr. 3
	31	$7\frac{3}{8}$	$7\frac{1}{2}$	3	$2\frac{1}{4}$	2	$1\frac{1}{2}$	2	.....	2	Shock Spr. 4
	32	$8\frac{1}{16}$	$8\frac{1}{4}$	$3\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{8}$	$1\frac{5}{8}$	$2\frac{5}{16}$	.....	$2\frac{3}{8}$	Shock Spr. 5
	33	$9\frac{3}{16}$	$9\frac{3}{8}$	$3\frac{3}{4}$	3	$2\frac{9}{16}$	$1\frac{3}{4}$	$2\frac{5}{8}$	.....	$2\frac{3}{4}$	Shock Spr. 6

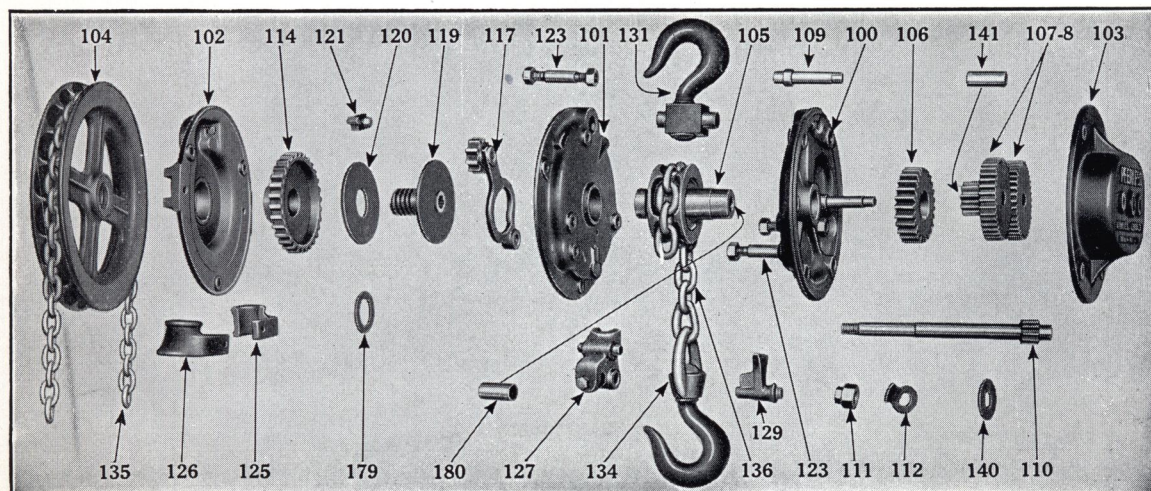
PARTS OF PEERLESS HOISTS



MODEL C



MODEL B



MODEL A

PARTS LIST OF PEERLESS HOISTS

The past and present models of the Peerless Hoist all have a general resemblance and by reason of interchangeability certain improved parts of the later designs can be used when repairs are required in the earlier models.

Model C is the STEEL CONSTRUCTION PEERLESS WITH BALL BEARINGS.

Model B had Steel Hangers for the load wheel bearings and a pressed steel back cover.

Model A had cast iron frames for directly supporting the load and a cast iron back cover.

When making repairs the newer parts which will interchange should be selected.

Quick shipments of orders for parts cannot be made unless full information is given.

Are the parts required for Model A, B, or C? (Refer to cuts on pages 1, 3 and 4).

What is the capacity of the hoist?

Give list number and quantity of each item wanted.

When ordering chain, state definitely whether Hand or Load Chain is wanted, and give the total number of feet of chain required. Substitution chains do not properly fit Peerless Hoists. For detailed dimensions of chains see Bulletin P-95.

LIST PRICES MODEL C PEERLESS PARTS

List No.	Capacity in Tons Capacity in Pounds Symbol for Size	1/4 500 P 1/2	1/2 1000 P1	1 2000 P2	1 1/2 3000 P3	2 4000 P4	3 Single 6000 P6	3 Double 6000 P6	4 8000 P8	5 10000 P10	6 12000 P12	8 16000 P16	10 20000 P20	15 30000 P30	20 40000 P40
106A	Main Gear	\$3.50	\$3.50	\$5.75	\$10.30	\$14.00	\$17.00	\$10.30	\$14.00	\$17.00	\$17.00	\$17.00	\$17.00	\$17.00	\$17.00
107-8A	Intermed. Gear with Bushing	6.00	6.00	8.70	11.00	14.00	17.00	11.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
110A	Driving Pinion and Key	6.25	5.70	6.50	8.00	8.75	11.50	8.00	8.75	11.50	11.50	11.50	11.50	11.50	11.50
111	Lock Nut	.60	.60	.60	.85	.85	.85	.85	.85	.85	.85	.85	.85	.85	.85
112	Check Washers	.20	.20	.20	.35	.35	.40	.35	.35	.40	.40	.40	.40	.40	.40
114	Ratchet Disc	4.75	4.75	6.00	8.50	9.50	12.00	8.50	9.50	12.00	12.00	12.00	12.00	12.00	12.00
115	Ratchet Pinion	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
116	Ratchet Pinion Stud	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65
118	Carrier Arm Stud	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65	.65
119B	Friction Disc	3.80	3.80	4.80	7.00	7.50	8.20	7.00	7.50	8.20	8.20	8.20	8.20	8.20	8.20
120B	Friction Washer	.75	.75	1.25	2.00	2.25	2.50	2.00	2.25	2.50	2.50	2.50	2.50	2.50	2.50
135	Hand Chain, per foot	.80	.80	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
136	Load Chain, per foot	1.50	1.70	1.80	2.00	2.20	3.20	2.00	2.20	3.20	3.20	3.20	4.00	4.00	4.00
140	Pinion Shaft Washer	.15	.15	.15	.20	.25	.40	.20	.25	.40	.40	.40	.40	.40	.40
141	Bushing only for 107-8A	.50	.50	.55	.65	.80	.90	.65	.80	.90	.90	.90	.90	.90	.90
161	Bottom Yoke Guard							4.00	5.40	6.00	7.50	8.20	8.20	20.00	35.00
163A	Bottom Swivel							16.00	17.50	18.50	35.00	35.00	50.00	83.00	120.00
163AR	Bottom Swivel, Bearing & Hook														
164B	Bottom Side Plate							30.00	38.25	51.00	100.50	107.00	159.50	266.00	386.00
165	Bottom Sheave Pin							3.00	3.25	4.00	4.00	4.50	6.30	19.00	20.00
166	Top Sheave Pin							1.70	2.00	2.65	3.25	3.50	4.25	11.50	21.00
169	Top Idler Guard											3.50	4.25	8.30	12.50
171A	Pocket Idler Sheave							12.75	14.20	18.00	21.00	26.00	34.00	15.50	18.00
171B	Plain Idler Sheave													16.00	44.00
175	Bottom Cross Bar											22.50	22.50		
179B	Hand Wheel Washer	.30	.30	.35	.40	.50	.60	.40	.50	.60	.60	.60	.60	.60	.60
601	Back Frame	4.60	4.60	5.00	8.40	12.00	16.00	8.40	12.00	16.00	16.00	16.00	16.00	16.00	16.00
602	Front Frame	4.25	4.25	4.75	8.25	11.75	15.50	8.25	11.75	15.50	15.50	15.50	15.50	15.50	15.50
604	Ball Bearing	2.20	2.20	3.50	6.75	9.40	10.50	6.75	9.40	10.50	10.50	10.50	10.50	10.50	10.50
605	Load Wheel with Bushing	11.00	11.00	12.50	14.00	16.00	18.00	14.00	16.00	18.00	18.00	18.00	21.00	21.00	21.00
606	Bushings only for 605	.45	.45	.45	.55	.70	.80	.55	.70	.80	.80	.80	.80	.80	.80
607	Connecting Stud & Nuts, ea.	2.40	2.40	3.10	3.50	4.00	4.25	3.50	4.00	4.25	4.25	4.25	4.25	4.25	4.25
611B	Load Chain Guide	4.25	4.25	4.50	5.00	6.50	7.00	5.00	6.50	7.00	7.00	7.00	9.00	9.00	9.00
615	Intermed. Pinion Stud, ea.	1.20	1.20	1.25	1.35	1.50	2.00	1.35	1.50	2.00	2.00	2.00	2.00	2.00	2.00
616	Back Plate	1.60	1.60	2.25	3.00	3.50	4.20	3.00	3.50	4.20	4.20	4.20	4.20	4.20	4.20
617	Carrier Arm Only	1.80	1.80	2.00	2.25	2.25	2.60	2.25	2.25	2.60	2.60	2.60	2.60	2.60	2.60
617R	Carrier Arm & Pin Complete	3.55	3.55	3.75	4.00	4.00	4.35	4.00	4.00	4.35	4.35	4.35	4.35	4.35	4.35
618	Back Cover	4.00	4.00	4.75	6.50	7.00	8.50	6.50	7.00	8.50	8.50	8.50	8.50	8.50	8.50
619	Friction Lock	.75	.75	.90	1.15	1.25	1.60	1.15	1.25	1.60	1.60	1.60	1.60	1.60	1.60
621	Front Cover with Bushing	5.10	5.10	6.00	8.40	8.75	12.00	8.40	8.75	12.00	12.00	12.00	12.00	12.00	12.00
622	Bushing only for 621	.30	.30	.35	.45	.50	.60	.45	.50	.60	.60	.60	.60	.60	.60
626	Loop chain guide L.H.														
627	Loop chain guide R.H.														
628	Chain Guide Bracket														
629	Chain Guide Center Bolt														
630R	Loop Chain Guide, one pc.	5.50	5.50	6.75	7.50	8.50	12.50	7.50	8.50	12.50	12.50	12.50	12.50	12.50	12.50
632	Hand Wheel	10.75	10.75	13.00	18.00	19.00	35.00	18.00	19.00	35.00	35.00	35.00	35.00	35.00	35.00
650	Bottom Hook & Swivel, Compl. with Pc. 655	6.00	6.00	7.40	12.50	14.50	18.50								
651	Bottom Swivel, only	2.10	2.10	3.00	5.00	5.20	6.80								
652	Bottom Hook & Nut, only	2.35	2.35	2.90	5.75	7.35	10.40	12.40	17.50	26.00	57.50	62.50	100.00	175.00	185.00
653	Bottom Hook Thrust Bearing	1.40	1.40	1.50	1.60	1.75	2.00	2.00	5.25	6.50	8.00	9.50	9.50	58.00	81.00
655	Bolt & Nut for Bottom Swivel	.30	.30	.30	.40	.50	.50								
660A	Top Yoke & Hook							47.00	62.50	74.00	109.00				
660B	Top Yoke & Hook											156.00	190.00		
660C	Top Yoke & Hook													350.00	460.00
661	Pin for Chain							.75	.90	1.00	1.20	1.75	1.75		
663	Yoke Pin							1.25	1.25	1.45	1.80	1.80	1.80	1.80	1.80
664	Stud to Limit Swing							.50	.50	.60	.75	.75	.75	.75	.75
671	Top Hook & Swivel	3.75	3.75	5.75	8.00	9.50	12.75								
675	Bottom Block Complete							54.50	66.50	85.75	140.25	176.20	241.00	368.50	620.00

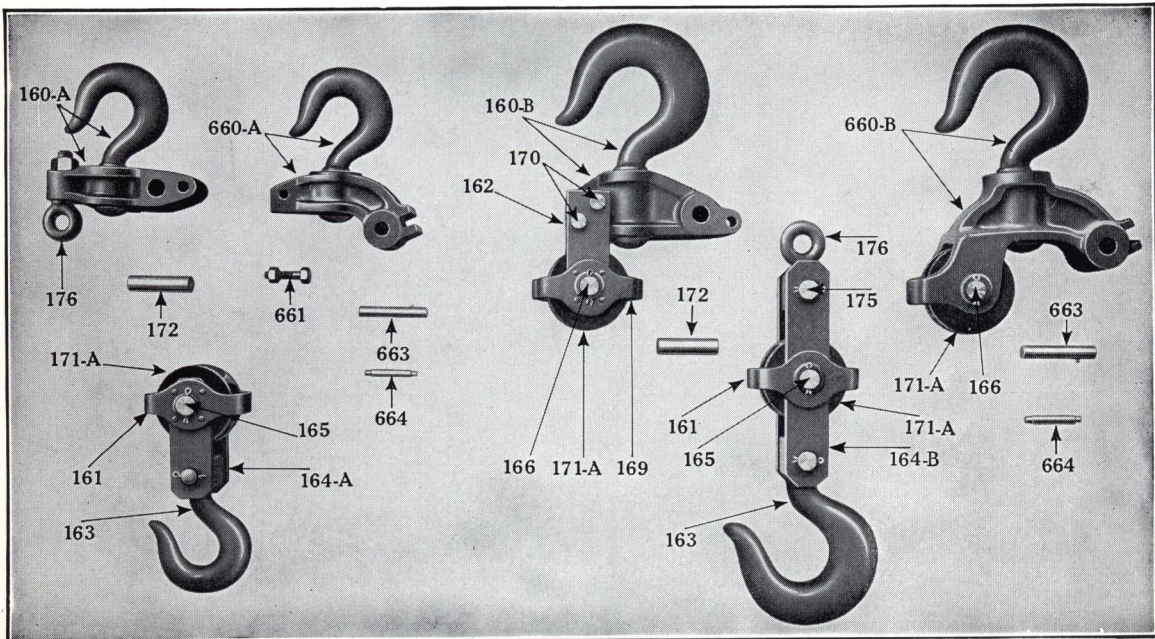
USE PIECE 630R

USE PIECE 675

LIST PRICES OF PARTS FOR MODELS A & B PEERLESS

For Parts Not Listed Use Parts for Model C Peerless on Page 2

List No.	Capacity in Tons Capacity in Pounds Symbol for Size	$\frac{1}{4}$ 500 P $\frac{1}{2}$	$\frac{1}{2}$ 1000 P1	1 2000 P2	$1\frac{1}{2}$ 3000 P3	2 4000 P4	3 6000 P6	4 8000 P8	5 10000 P10	6 12000 P12	8 16000 P16	10 20000 P20	15 30000 P30	20 40000 P40
100	Back Frame.....	\$12.00	\$12.00	\$14.00	\$18.50	\$28.00	\$32.00	\$28.00	\$32.00	\$32.00	\$32.00	\$32.00	\$32.00	\$32.00
101	Front Frame.....	12.50	12.50	15.00	20.00	28.50	33.00	28.50	33.00	33.00	33.00	33.00	33.00	33.00
102	Front Cover.....	8.25	8.25	12.50	14.50	16.00	28.50	16.00	28.50	28.50	28.50	28.50	28.50	28.50
103	Back Cover.....	IN PLACE OF BACK COVER 103 USE PARTS 182, 183, 185												
104	Hand Wheel.....	USE PART NO. 632												
105	Load Wheel with Bushing....	12.00	12.50	14.00	17.00	20.00	24.00	20.00	24.00	24.00	24.00	27.50	27.50	27.50
109	Intermed. Pinion Stud.....	1.50	1.50	1.50	1.75	2.00	2.50	2.00	2.50	2.50	2.50	2.50	2.50	2.50
110	Driving Pinion.....	USE PART NO. 110A												
117	Carrier Arm.....	2.75	2.75	3.00	3.50	4.00	5.00	4.00	5.00	5.00	5.00	5.00	5.00	5.00
117R	Carrier Arm & Pin Complete	4.50	4.50	4.75	6.25	5.75	6.75	5.75	6.75	6.75	6.75	6.75	6.75	6.75
121	Friction Lock & Bolt.....	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90
123	Connecting Stud & Nuts...ea.	1.50	1.50	1.50	1.75	2.00	2.50	2.00	2.50	2.50	2.50	2.50	2.50	2.50
125	Hand Chain Guide L.H.....	3.00	3.00	3.50	3.75	4.00	5.00	4.00	5.00	5.00	5.00	5.00	5.00	5.00
126	Hand Chain Guide R.H.....	3.00	3.00	3.50	3.75	4.00	5.00	4.00	5.00	5.00	5.00	5.00	5.00	5.00
127	Load Chain Guide & Bolt...	1.80	1.80	2.00	3.50	4.50	5.50	4.50	5.50	5.50	5.50	6.00	6.00	6.00
129	Stripper.....	.50	.50	.75	1.00	1.25	1.80	1.25	1.80	1.80	1.80	2.00	2.00	2.00
131	Top Hook & Swivel.....	4.50	4.50	6.00	8.50	12.00	16.00	SEE PART NUMBER 160, A, B, & C						
134	Bottom Hook & Swivel.....	USE PART NO. 650												
160ABC	Top Yoke & Hook.....	APPLY FOR PRICES												
162	Top Side Plate.....	APPLY FOR PRICES												
176	Eye Bolt & Nut.....	APPLY FOR PRICES												
180	Load Wheel Bushing.....	USE PART NO. 606												
182	Gear Support.....	5.00	5.00	6.50	7.50	9.00	10.50	9.00	10.50	10.50	10.50	10.50	10.50	10.50
183	Gear Support Stud & Nut...ea.	.60	.60	.75	1.00	1.25	1.75	1.25	1.75	1.75	1.75	1.75	1.75	1.75
185	Back Cover.....	4.00	4.00	4.75	8.00	10.00	12.00	10.00	12.00	12.00	12.00	12.00	12.00	12.00
187	Back Frame.....	12.00	12.00	14.00	18.50	28.00	32.00	28.00	32.00	32.00	32.00	32.00	32.00	32.00
188	Front Frame.....	12.50	12.50	15.00	20.00	28.50	33.00	28.50	33.00	33.00	33.00	33.00	33.00	33.00
189	Back Hanger.....	3.50	3.50	4.00	5.00	7.00	9.00	7.00	9.00	9.00	9.00	9.00	9.00	9.00
190	Front Hanger.....	3.50	3.50	4.00	5.00	7.00	9.00	7.00	9.00	9.00	9.00	9.00	9.00	9.00
191	Back Hanger Bushing.....	2.00	2.00	2.50	3.50	4.00	6.00	4.00	6.00	6.00	6.00	6.00	6.00	6.00
192	Front Hanger Bushing.....	2.00	2.00	2.50	3.50	4.00	6.00	4.00	6.00	6.00	6.00	6.00	6.00	6.00
193	Hand Wheel.....	USE PART NO. 632												



TOP YOKES AND BOTTOM BLOCKS OF FOUR TON AND LARGER SIZES AND THREE TON MODEL C WITH DOUBLE LOAD CHAIN.

LUBRICATION SUGGESTIONS

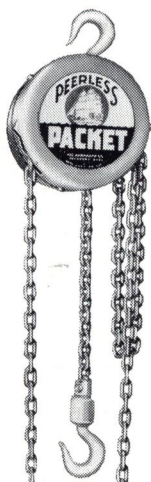
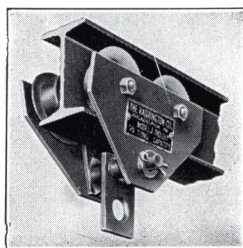
Chain hoists usually hang in high places and lubrication is liable to be neglected with the result of unsatisfactory operation. Occasional oiling of the internal mechanism and lubrication of the load chain will maintain proper operating efficiency and will increase the life of the hoist.

Peerless Hoists have two oil tubes which serve the main bearings and one oil tube on the front cover which serves the central bearings of the

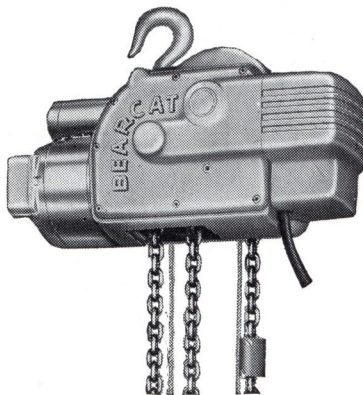
friction mechanism. Intermediate pinion bearings are oiled through holes in the back cover which mate with ducts drilled lengthwise in the studs. A few drops should be applied through the hole in the front of the hand wheel hub.

A slight application of light grease or heavy oil will help to prevent wear of load chain. After slushing wipe off the outside excess without removing lubricant from between the links.

SOME OTHER HARRINGTON PRODUCTS

SPUR GEARED
CHAIN HOIST

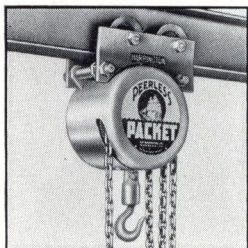
TROLLEYS FOR I BEAM



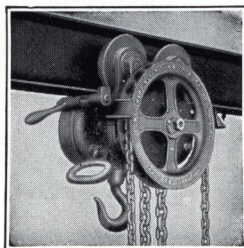
ELECTRIC HOIST

CUM ALONG PULLER
AND HOIST

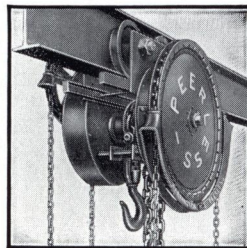
TROLLEY HOISTS FOR CLOSE HEAD ROOM



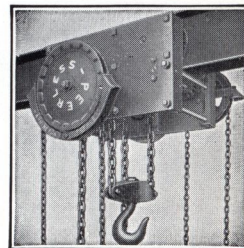
PACKET



TYPE B

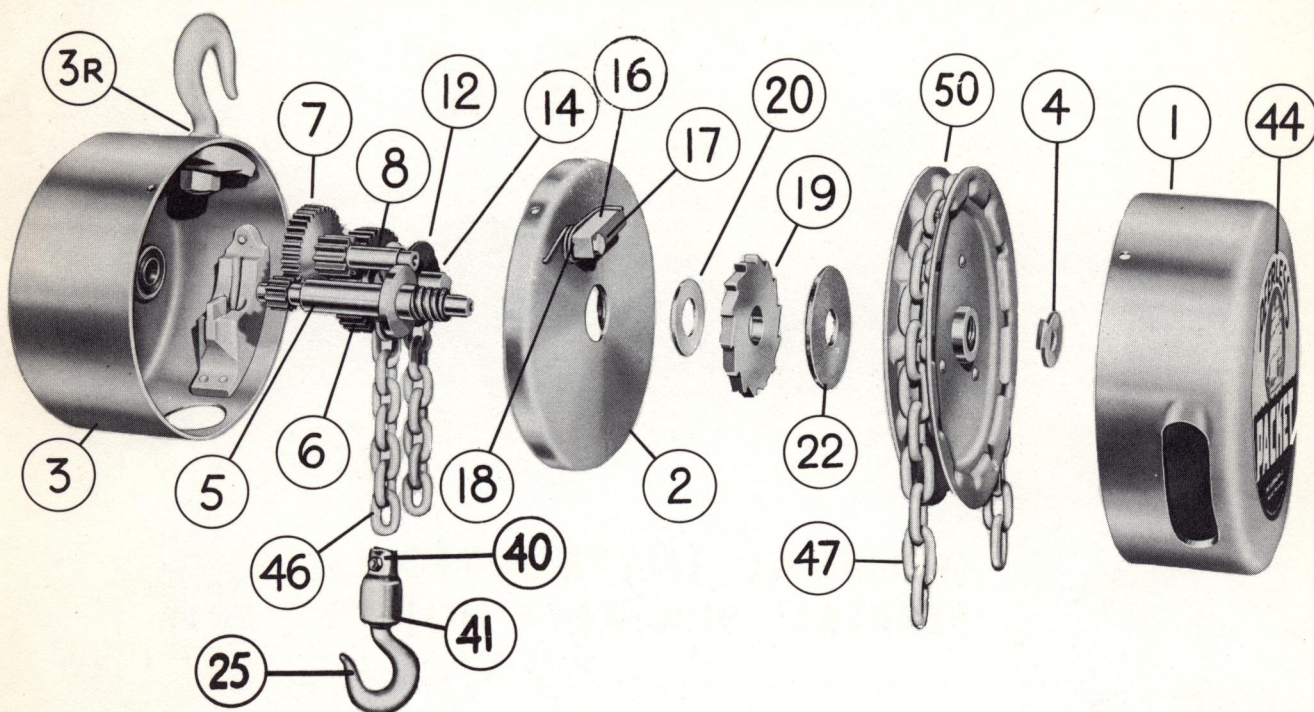


TYPE H



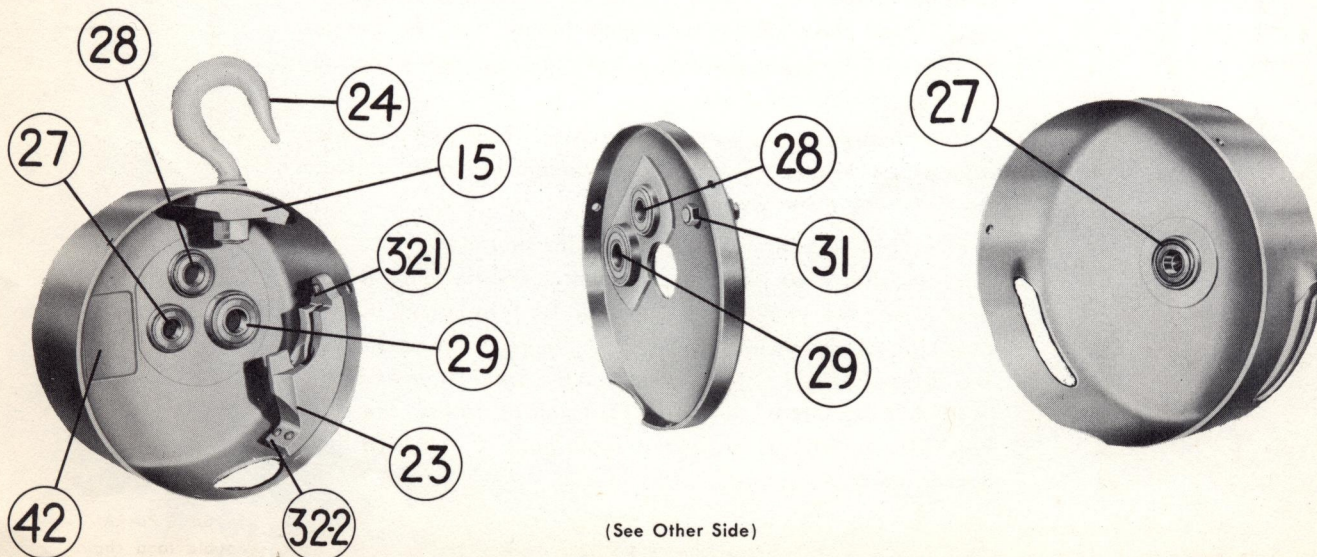
TYPE CH

PARTS FOR PEERLESS "PACKET" HOISTS



Pc. No.	Req'd per Hoist	Price Each			Pc. No.	Req'd per Hoist	Price Each		
		G 1 1/2 Ton	G 2 1 Ton	G 4 2 Ton			G 1 1/2 Ton	G 2 1 Ton	G 4 2 Ton
* 1	1	6.00	6.00	6.00	*23	1	2.40	2.40	2.40
* 2	1	4.50	4.50	4.50	24	1	1.70	2.10	5.00
* 3	1	7.50	8.50	11.00	25	1	..	..	5.00
* 3R	1	11.00	12.60	19.00	26	2	.10	.15	.20
4	1	.35	.35	.35	27	2	1.20	1.20	1.20
5	1	3.50	3.50	3.50	28	2	1.20	1.20	1.20
6	1	3.00	3.25	3.25	29	2	1.80	1.80	1.80
7	1	2.50	2.50	2.50	31	2	.05	.05	.05
8	1	3.50	3.00	3.00	32-1	1	.05	.05	.05
9	1	.15	.15	.15	32-2	2	.05	.05	.05
10	1	.05	.15	.15	34	3	.03	.03	.03
11	1	.05	.05	.05	37	1	.25	.25	.25
12	1	4.75	5.00	5.00	39	1	.05	..	1.00
13	1	.10	.10	.10	40	1	.05	.05	..
14	1	.60	.60	.60	41	1	5.70	6.50	..
*15	1	1.80	2.00	3.00	42	1	.35	.35	.45
16	1	.50	.50	.50	44	1	1.20	1.20	1.20
17	1	.15	.15	.15	46	1	9'-1"	9'-1"	20'-0"
18	1	.25	.25	.25			.94	1.10	1.10
19	1	3.00	3.00	3.00	*47	1	15'-8"	15'-8"	18'-8"
20	1	.25	.25	.25			.55	.55	.55
22	1	.60	.60	.60	*50	1	7.00	7.00	7.00

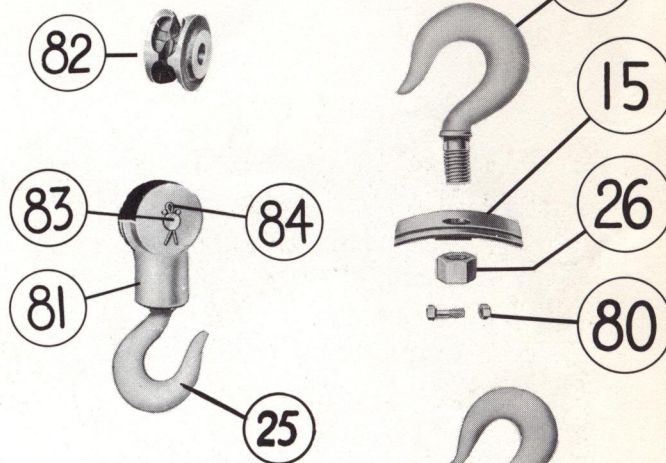
*ALUMINUM PACKET PARTS AND ALUMINUM HAND CHAIN—INCREASE LISTS BY 20%



(See Other Side)

PARTS FOR PEERLESS "PACKET" HOISTS

Pc. No.		Req'd per Hoist	G 1 ½ Ton	Price Each G 2 1 Ton	G 4 2 Ton
80	Bolt for Chain	1	..	..	.20
81	Bottom Yoke only	1	..	..	7.50
81R	Bottom Yoke with Hook	1	..	..	13.50
82	Idle Wheel	1	..	..	4.80
83	Shaft for Idle Wheel	1	..	..	.55
85R	Bottom Block complete	1	..	..	18.85
PARTS FOR "PACKET" TROLLEY HOIST					
101R	Front Case with Lugs	1	10.50	10.50	11.00
102	Trolley Wheel Complete	4	5.70	6.75	9.00
103R	Rear Case with Lugs	1	12.00	13.00	16.00
151	Trolley Side Plate	2	5.00	7.00	10.00
163	Connecting Stud	2	2.00	2.00	3.00
164	Nuts for Connecting Stud	8	.10	.10	.10



GENERAL INSTRUCTIONS PEERLESS "PACKET" HOISTS

Peerless Packet hoists are carefully lubricated and tested at the factory, and are ready for use when shipped. No maintenance should be required except for periodic inspection and lubrication, about every six months in normal service.

The gear train should be lubricated about twice a year. Remove the capacity plate from the back of the hoist and apply grease to the gears through the opening with a brush or paddle. Keystone #122X heavy or equal is recommended.

All shafts rotate on pre-lubricated ball bearings and require no maintenance.

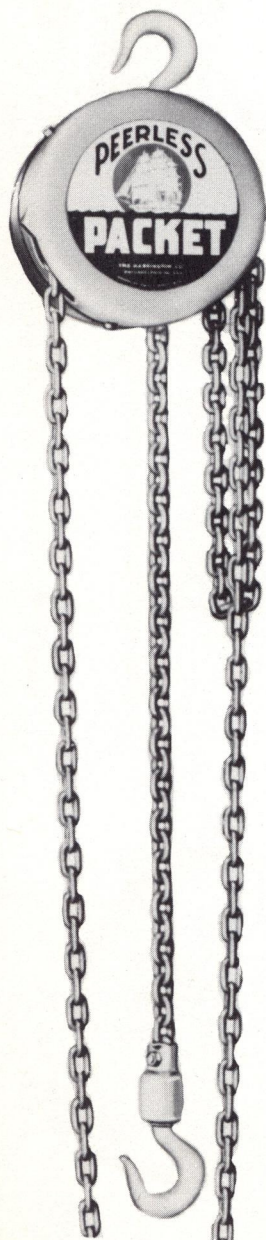
Apply oil to the friction mechanism through the oil hole on the top of the front cover.

The hand chain should be shortened if it touches the floor to prevent carrying the dirt up into the pockets of the hand wheel. It has one unwelded link; any links removed should be even in number.

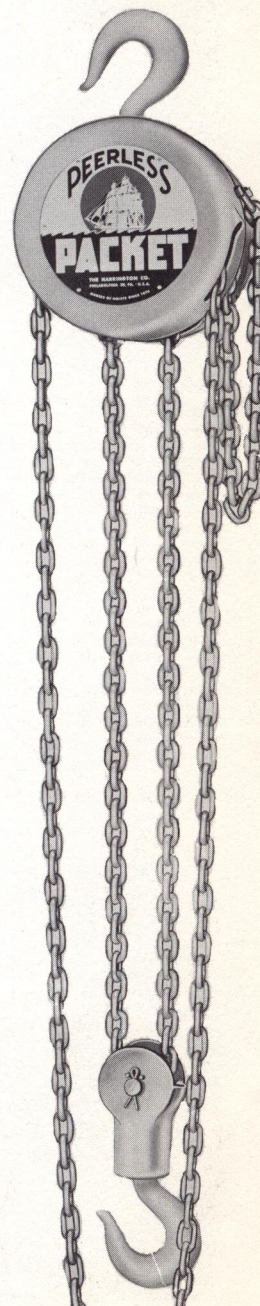
The load chain should be slightly longer than the greatest lift required, to avoid pulling up tight and damaging the load chain guide or other parts.

Unlubricated chains wear rapidly. Apply heavy oil or grease, wipe off the excess, but allow the lubricant to remain between the links where the wear occurs.

This hoist is built for long and safe operation, up to the capacity shown on the capacity plate. Overloading is both destructive and dangerous. Do your best to avoid it. If in doubt about the weight to be lifted, there is an easy check: The ½ ton PACKET requires a pull on the hand chain of 42 lbs. to lift full load, the 1 ton PACKET a pull of 56 lbs., the 2 ton PACKET a pull of 60 lbs. Hand chain pulls in excess of these figures indicate overload.



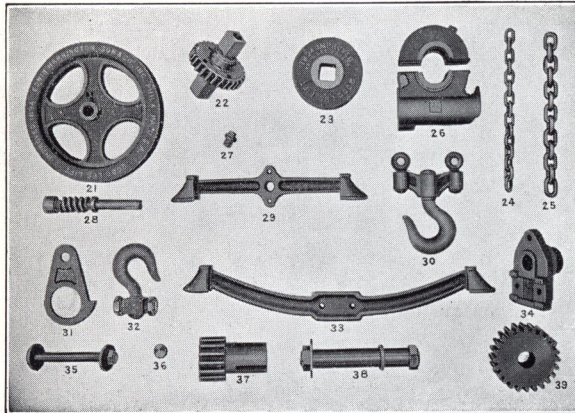
½ and 1-Ton "Packet"
with single load chain.



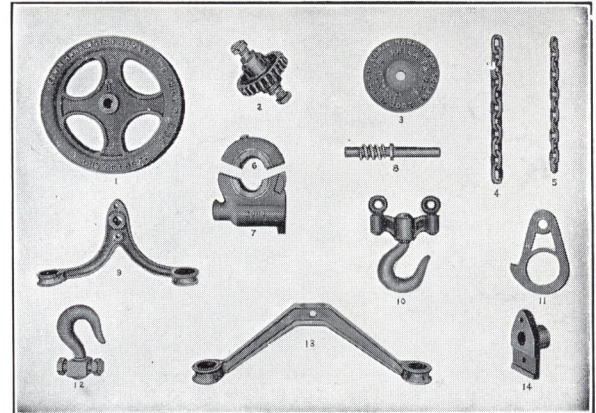
2-Ton "Packet" with
double load chain.

PARTS OF SCREW HOISTS

Parts below for 1894 Model



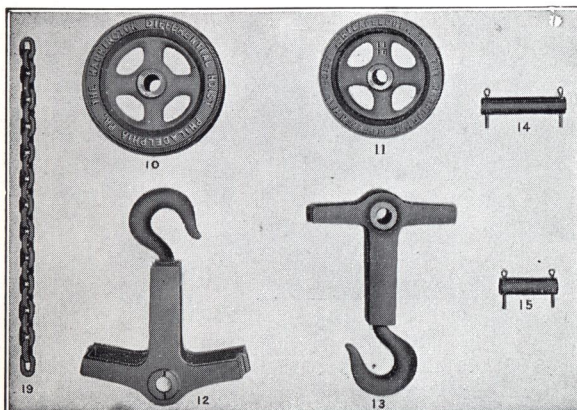
Parts below for 1876 Model Discontinued



IMPROVED MODEL OF 1894

Cat. List No.	Pattern No.	Capacity in Tons Capacity in Pounds Symbol for Size	1/4 500 A 1/2	1/2 1000 A1	1 2000 A2	1 1/2 3000 A3	2 4000 A4	3 6000 A6	4 8000 A8	5 10000 A10	6 12000 A12	8 16000 A16	10 20000 A20
21	7	Hand Wheel	Repair parts for 1894 Model are no longer carried in stock, some inventory remains. Apply for prices.										
22	5	Worm Gear and Hub											
23	4	Load Wheel, each	1876 Model has been discontinued. Hand wheel, hand chain, load chain and bottom hook and swivel 1894 Model are interchangeable.										
24	51	Hand Chain, per foot											
25	50	Feet for regular lift	For high efficiency modern hoists see Bulletin P5 for Steel and Aluminum Peerless Packets, and Bulletin P-11 for Peerless Model C Spur Geared Chain Hoists.										
26	19	Load Chain, per foot											
27	16	Feet for regular lift											
28	8A	Case and Cap											
29	19	Thrust Screw											
30	16	Worm											
31	8A	Hand Chain Guard											
32	6A	Bottom Hook and Swivel											
33	3	Side Plates, each											
34	37A	Top Hook and Swivel											
35	8A	Hand Chain Guard											
36	9	Gland											
37	31A-32	Center Bolt and Washers											
38	12	Thrust Washer											

PARTS OF DIFFERENTIAL HOISTS

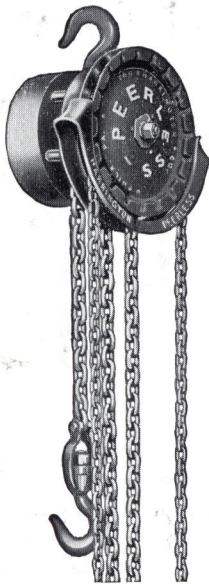


List No.	Capacity in Tons Capacity in Pounds Symbol for Size	1/4 500 D 1/4	1/2 1000 D 1/2	1 2000 D1	1 1/2 3000 D1 1/2
10	Top Sheave	\$7.20	\$9.60	\$12.00	\$16.80
11	Bottom Sheave	1.80	2.60	3.00	3.80
12	Top Frame and Hook*	6.00	7.50	9.00	11.00
13	Bottom Frame and Hook*	4.50	6.00	7.50	9.00
14	Top Pin	.80	1.00	1.00	1.20
15	Bottom Pin	.60	.80	.80	1.00
19	Chain, per foot	1.50	1.50	1.60	1.70
	Feet for regular lift	22	26	30	33

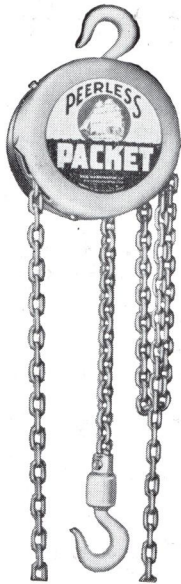
*Steel frames of the B Model interchange with the cast malleable frames of the A Model and steel frames will always be furnished as repair parts.

SPUR GEARED CHAIN HOISTS

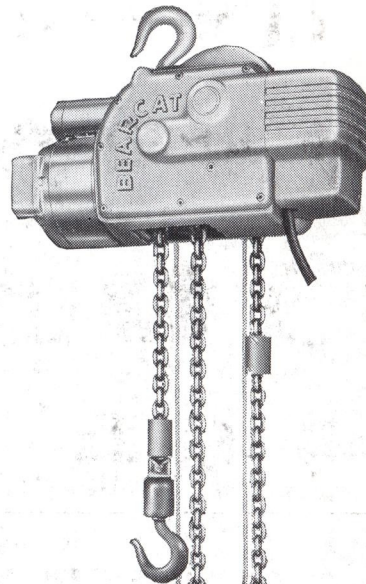
BEARCAT ELECTRIC HOISTS



PEERLESS "C"
BULLETIN P-11

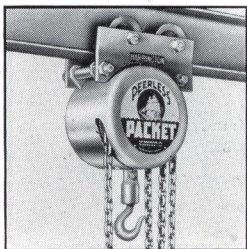


PEERLESS PACKET
BULLETIN P-5

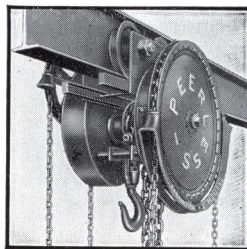


MODELS RA, RC, RD, RE, RF, RG
BULLETIN P-53

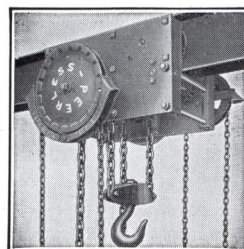
TROLLEY HOISTS FOR CLOSE HEAD ROOM



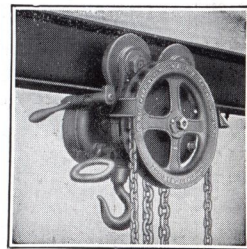
PACKET



TYPE H



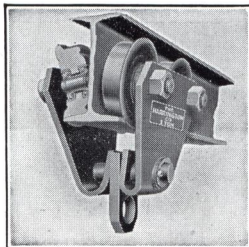
TYPE CH



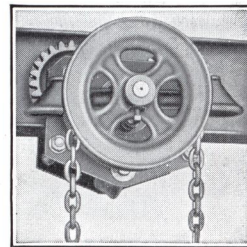
TYPE B

BULLETIN P-35

I BEAM TROLLEYS



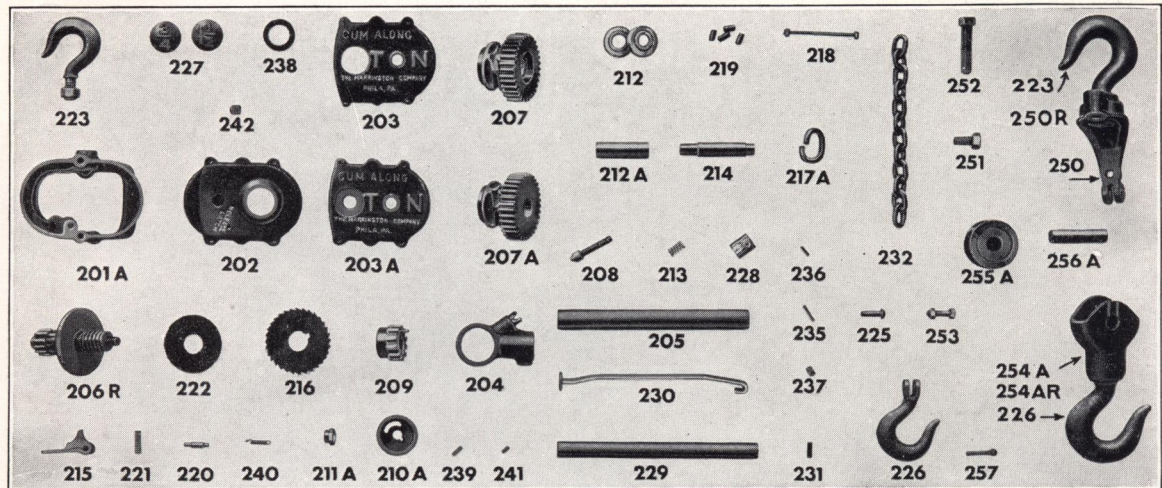
PUSH



GEARED

BULLETIN P-65

PARTS FOR CUM ALONG LEVER PULLERS



PARTS LIST FOR HARRINGTON CUM ALONG LEVER PULLER AND HOIST

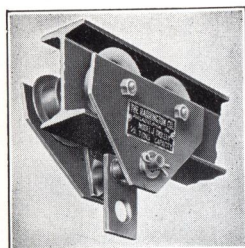
List No.	Capacity in tons Capacity in pounds Symbol for size	$\frac{3}{4}$ 1500 L 1.5	$1\frac{1}{2}$ 3000 L 3.0	List No.	Capacity in tons Capacity in pounds Symbol for size	$\frac{3}{4}$ 1500 L 1.5	$1\frac{1}{2}$ 3000 L 3.0
201-A	Case without hook.....	\$8.30	\$8.30	226	Bottom Hook.....	\$2.50	\$3.50
201-AR	Case with top hook.....	9.30	....	227	Capacity Plate.....	.10	.10
202	Front Cover.....	6.75	6.75	228	Reversing Pawl Knob.....	1.35	1.35
203	Rear Cover, for ball bearing..	*4.50	*4.50	229	Extension Handle.....	.45	.45
† 203-A	Rear Cover, plain bearing....	Use Pc. #203	....	230	Extension Handle Stop.....	.20	.20
# 204	Lever Hub.....	....	....	231	Extension Handle Pin.....	.05	.05
# 205	Lever Outside Tube.....	....	....	232	Load Chain (per foot).....	1.40	1.40
204-AR	Lever Hub & Tube Assembly..	3.75	3.75		Length for Regular lift....	5'7"	11'2"
206-AR	Pinion Shaft Complete.....	6.00	6.00	235	Reversing Pawl Knob Pin...	.05	.05
207-A	Load Sheave, with bronze bushings.....	13.40	13.40	236	Reversing Pawl Pin.....	.05	.05
208	Reversing Pawl.....	.60	.60	237	Lever Hub Set Screw.....	.10	.10
209	Ratchet Nut.....	2.00	2.00	238	Bearing Stop.....	.10	.10
210-A	Lever Hub Washer.....	1.65	1.65	239	Screw in Lever Hub Washer..	.05	.05
211-A	Friction Disc Nut.....	.15	.15	240	Ratchet Nut Spring.....	.10	.10
212-A	Load Wheel Bushing.....	.50	.50	241	Ratchet Nut Pin.....	.05	.05
213	Reversing Pawl Spring.....	.15	.15	242	Case Closing Screw.....	.10	....
214	Load Wheel Shaft.....	.55	.55	244	Ratchet Disc Washer.....	.10	.10
215	Friction Brake Pawl.....	.65	.65	245	Asbestos Washer.....	.20	.20
216	Brake Ratchet Disc.....	1.00	1.00	250	Yoke Only, without hook....	..	6.00
217-A	Load Chain Stop.....	.15	....	250-R	Yoke, complete with top hook	....	9.75
218	Cover Bolt (each).....	.15	.15	251	Yoke Cap Screw.....	....	.20
219	Cover Dowels (set 4).....	.20	.20	252	Vertical Stud.....	....	.25
220	Brake Pawl Stud.....	.55	.55	253	Chain End Bolt.....	....	.20
221	Brake Pawl Spring.....	.20	.20	254-AR	Bottom Yoke, with hook....	....	9.75
222	Friction Washer.....	.35	.35	254	Bottom Yoke without hook..	....	6.00
223	Top Hook.....	1.00	3.50	255-A	Bottom Idler.....	....	4.10
224-A	Top Hook Nut.....	.10	.20	256-A	Bottom Idler Pin & cotters..	....	.85
225	Bottom Hook Rivet.....	.10	....	259-A	Bottom Hook Nut.....	....	.20
				262	Ball Bearing (each).....	1.35	1.35

*For ball bearing Cum Along Pullers only.

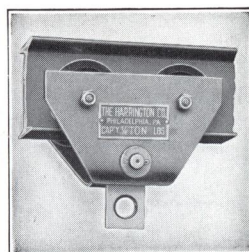
#Use pc. 204-AR.

† Discontinued. Use Cover 203 & ball bearing 262

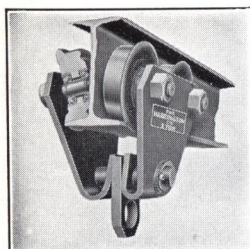
PARTS FOR TROLLEYS



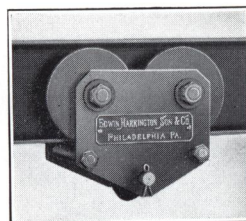
MODEL J



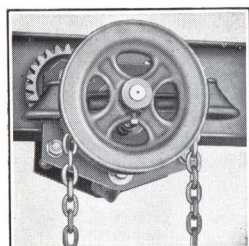
MODEL F



MODEL D

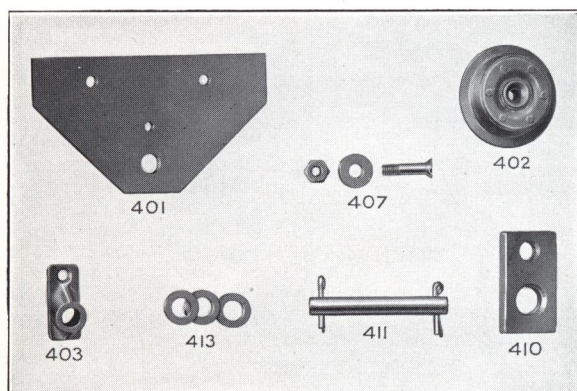


MODEL C—PLAIN



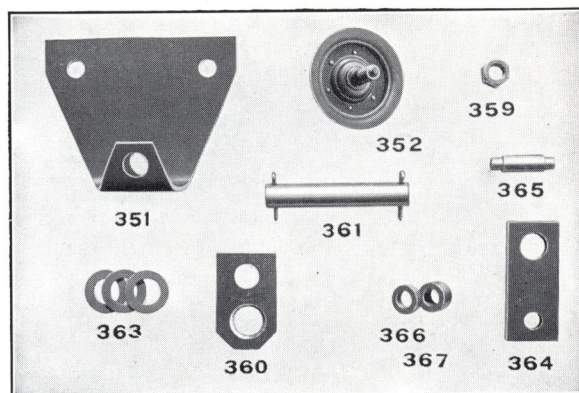
MODEL C—GEARED

MODEL J TROLLEY



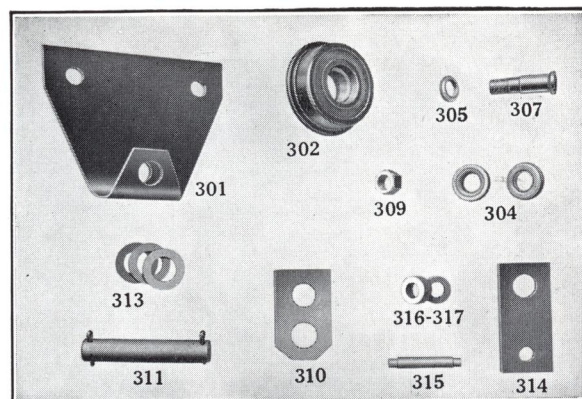
List No.	Capacity in Tons Capacity in Pounds Symbol for Size	$\frac{1}{4}$ & $\frac{1}{2}$ 500 & 1000 T1	1 & $1\frac{1}{2}$ 2000 & 3000 T3
401R	Side Plate.....	\$3.50	\$4.25
402	Trolley Wheel.....	3.50	4.30
403	Now welded to 401.....		
407	Wheel Stud & Nut.....	.30	.50
410	Link.....	1.20	1.70
411	Link Pin.....	1.20	2.00
413	Spacing Washer.....	.05	.05

MODEL F TROLLEY



List No.	Capacity in Tons Capacity in Pounds Symbol for Size	$\frac{1}{4}$ & $\frac{1}{2}$ 500 & 1000 T1	1 & $1\frac{1}{2}$ 2000 & 3000 T3
351	Side Plate.....	\$5.75	\$6.25
352	Trolley Wheel.....	7.30	8.75
359	Wheel Stud Nut.....	.15	.25
360	Link.....	1.10	1.45
361	Link Pin.....	.75	1.60
363	Spacing Washer.....	.05	.05
	Capacity Plate.....	.30	.30

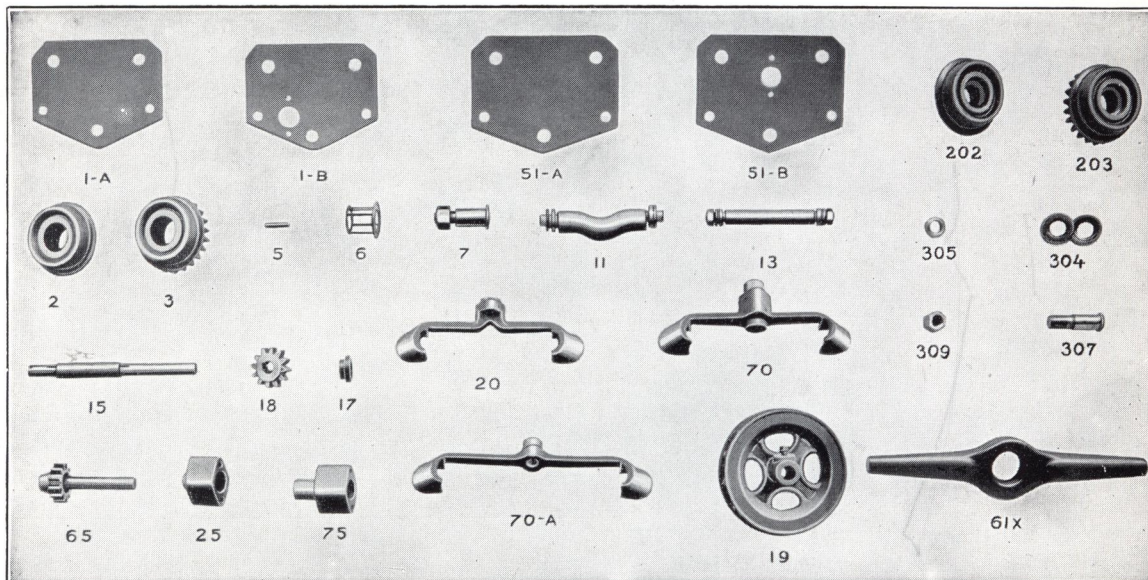
MODEL D TROLLEY (Ball Bearing)



List No.	Capacity in Tons Capacity in Pounds Symbol for Size	$\frac{1}{2}$ 1000 T1	1 2000 T2	$1\frac{1}{2}$ 3000 T3	2 4000 T4
301	Side Plate.....	\$5.30	\$5.30	\$6.20	\$12.30
302	Trolley Wheel.....	4.20	7.50	9.00	11.50
304	Ball Bearing.....	1.60	1.60	1.75	1.90
305	Wheel Stud Collar.....	.35	.35	.40	.50
307	Wheel Stud.....	1.30	1.30	1.50	1.65
309	Wheel Stud Nut.....	.25	.25	.25	.45
310	Link.....	1.45	1.75	1.75	2.40
311	Link Pin.....	1.55	1.80	1.80	2.25
313	Spacing Washer.....	.05	.05	.05	.10

For parts for Timken Bearing trolleys, apply for prices.

MODELS A, B and C TROLLEYS



Model "A," now obsolete, had roller bearings, no adjustment for width, small clearance below beam and two pinions when geared.

Model "B," now obsolete, had roller bearings, washers

for adjustment of width, and one pinion when geared

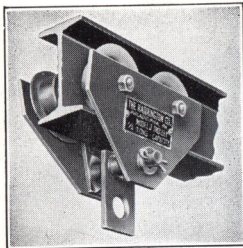
Model "C" has double ball bearing wheels, washers for adjustment of width, large clearance below the beam, and nipples for lubrication.

Pieces numbered 1A through 18, inclusive, also piece 20 and piece 25, are parts of obsolete Model A or Model B trolleys and are no longer manufactured. In some cases Models A and B can be repaired with Model C parts, but the factory should be consulted before ordering. Parts 61 and 63 for Model C trolley are similar to parts 11 and 13 for A and B trolleys, but are not interchangeable.

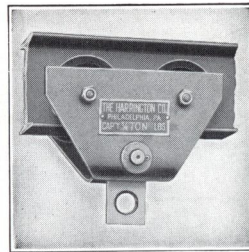
List No.	Used in Model	Capacity in Tons... Capacity in Pounds... Symbol for Size...	$\frac{1}{2}$ 1000 T-1	1 2000 T-2	$1\frac{1}{2}$ 3000 T-3	2 4000 T-4	3 6000 T-6	4 8000 T-8	5 10,000 T-10	6 12,000 T-12	8 16,000 T-16	10 20,000 T-20	15 30,000 T-30	20 40,000 T-40
51A	B, C	Side Plate, Plain, ea.	3.00	4.40	6.50	7.40	12.00	15.00	18.00	23.00	34.00	41.00	78.00	125.00
51B	B, C	Side Plate, Geared, ea.	3.50	5.50	8.00	10.00	15.00	18.50	22.00	28.00	42.00	54.00	92.00	140.00
202	C	Trolley Wheel, Plain, ea.	2.50	5.75	10.50	12.00	14.00	16.00	23.00	27.50	46.00	55.00	65.00	105.00
203	C	Trolley Wheel, Geared, ea.	3.00	6.75	12.00	15.00	18.00	20.00	28.00	32.00	58.00	68.00	84.00	120.00
304	C	Ball Bearing, ea.	1.60	1.60	2.00	2.00	3.50	5.00	6.00	7.50	8.50	10.00	14.50	23.00
305	C	Wheel Stud Collar, ea.	.35	.35	.60	.60	.85	1.20	1.50	1.75	7.50	9.00	10.00	12.00
307	C	Wheel Stud without Nut, ea.	1.40	1.40	2.10	2.10	2.50	3.40	4.20	5.00	9.00	12.00	16.50	27.50
309	C	Wheel Stud Nuts, ea.	.25	.25	.50	.60	.90	1.20	2.00	2.60	5.20	6.25	8.50	13.50
61A	B, C	Hook Bar and cotters	6.60	7.50	9.25	10.50	11.25	18.00	21.00	35.00	35.00	42.00	95.00	160.00
61X	C	Hook bar for extra wide flanges	APPLY FOR PRICE GIVING ALL BEAM DIMENSIONS											
63	B, C	Connecting Stud & Nuts, ea.	2.00	2.00	2.10	2.10	2.50	2.70	3.80	4.50	5.00	5.50	7.50	12.50
68	B, C	Pinion & Shaft, complete, ea.	5.25	5.25	6.00	6.00	8.00	8.00	9.50	10.00	11.50	11.50	11.50	11.50
19	A, B, C	Hand Wheel	5.50	8.50	8.50	8.50	8.50	8.50	10.00	10.00	12.00	12.00	12.00	12.00
70	B, C	Hand Chain Guide	4.50	8.00	8.00					8.00				
75	B, C	Chain Guide Block							7.50	7.50	10.00	10.00	10.00	10.00
86	B, C	Hook Bar Washers only, each	.04	.04	.05	.05	.08	.08	.10	.10	.10	.10		
87	B, C	Connecting Stud Washers only, ea.	.03	.03	.03	.03	.03	.03	.05	.05	.05	.05		
43	A, B, C	Hand Chain, per ft.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	A, B, C	Feet for regular heights	17'-4"	18'-8"	19'-2"	21'-7"	24'-4"	26'-1"	31'-8"	32'-2"	33'-6"	34'-1"		

For parts for Timken Bearing trolleys, apply for prices.

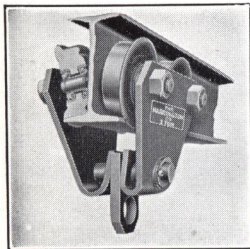
PARTS FOR TROLLEYS



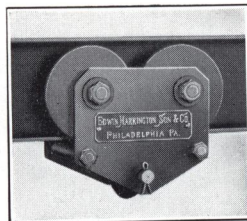
MODEL J



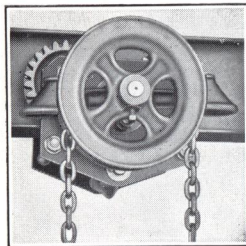
MODEL F



MODEL D

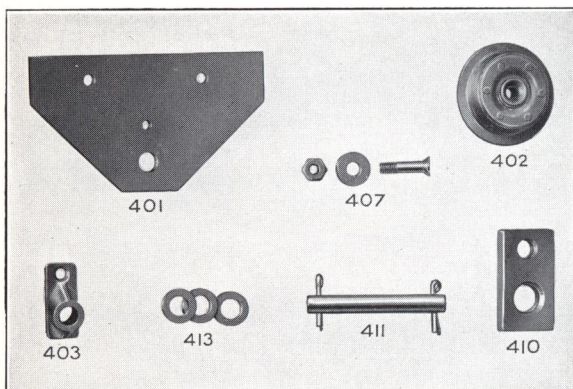


MODEL C—PLAIN



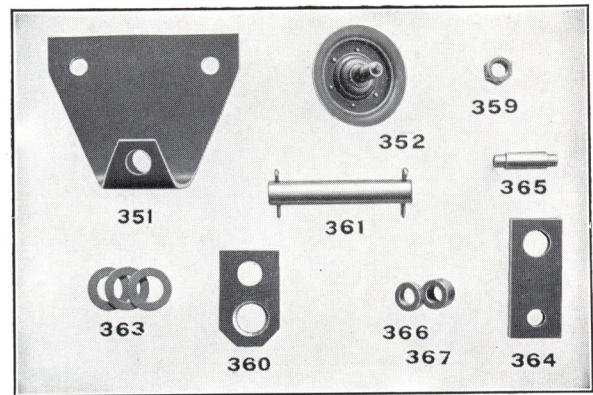
MODEL C—GEARED

MODEL J TROLLEY



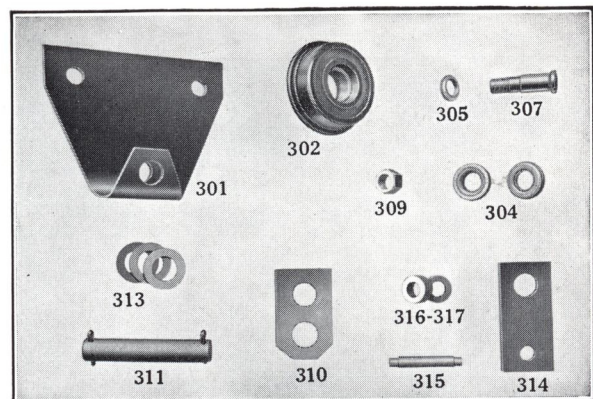
List No.	Capacity in Tons Capacity in Pounds Symbol for Size	$\frac{1}{4}$ & $\frac{1}{2}$ 500 & 1000 T1	1 & $1\frac{1}{2}$ 2000 & 3000 T3
401R	Side Plate.....	\$3.50	\$4.25
402	Trolley Wheel.....	3.50	4.30
403	Now welded to 401.....		
407	Wheel Stud & Nut.....	.30	.50
410	Link.....	1.20	1.70
411	Link Pin.....	1.20	2.00
413	Spacing Washer.....	.05	.05

MODEL F TROLLEY



List No.	Capacity in Tons Capacity in Pounds Symbol for Size	$\frac{1}{4}$ & $\frac{1}{2}$ 500 & 1000 T1	1 & $1\frac{1}{2}$ 2000 & 3000 T3
351	Side Plate.....	\$5.75	\$6.25
352	Trolley Wheel.....	7.30	8.75
359	Wheel Stud Nut.....	.15	.25
360	Link.....	1.10	1.45
361	Link Pin.....	.75	1.60
363	Spacing Washer.....	.05	.05
	Capacity Plate.....	.30	.30

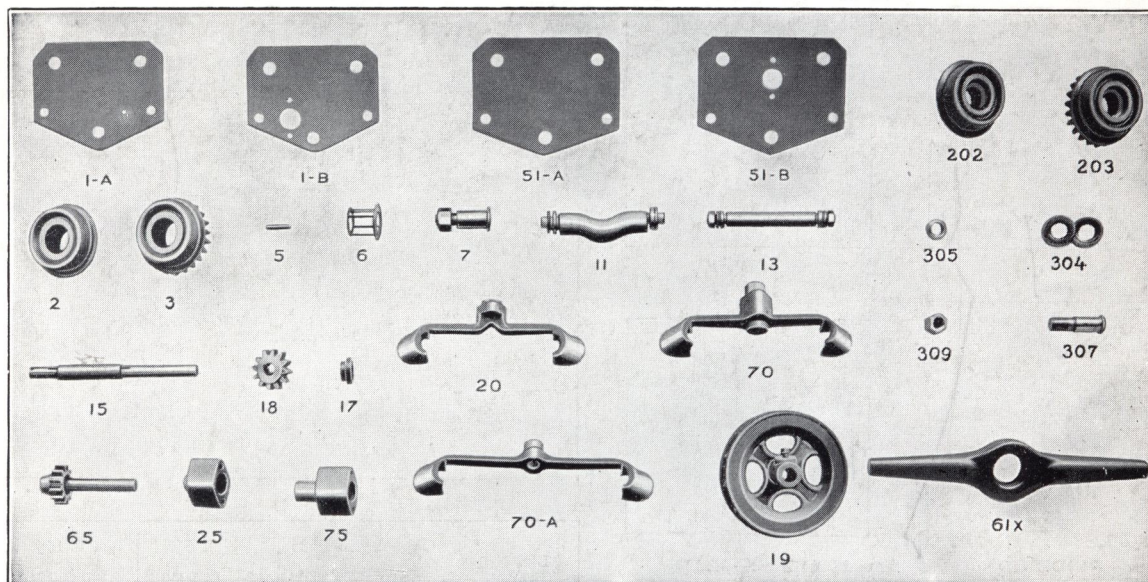
MODEL D TROLLEY (Ball Bearing)



List No.	Capacity in Tons Capacity in Pounds Symbol for Size	$\frac{1}{2}$ 1000 T1	1 2000 T2	$1\frac{1}{2}$ 3000 T3	2 4000 T4
301	Side Plate.....	\$5.30	\$5.30	\$6.20	\$12.30
302	Trolley Wheel.....	4.20	7.50	9.00	11.50
304	Ball Bearing.....	1.60	1.60	1.75	1.90
305	Wheel Stud Collar.....	.35	.35	.40	.50
307	Wheel Stud.....	1.30	1.30	1.50	1.65
309	Wheel Stud Nut.....	.25	.25	.25	.45
310	Link.....	1.45	1.75	1.75	2.40
311	Link Pin.....	1.55	1.80	1.80	2.25
313	Spacing Washer.....	.05	.05	.05	.10

For parts for Timken Bearing trolleys, apply for prices.

MODELS A, B and C TROLLEYS



Model "A," now obsolete, had roller bearings, no adjustment for width, small clearance below beam and two pinions when geared.

Model "B," now obsolete, had roller bearings, washers

for adjustment of width, and one pinion when geared

Model "C" has double ball bearing wheels, washers for adjustment of width, large clearance below the beam, and nipples for lubrication.

Pieces numbered 1A through 18, inclusive, also piece 20 and piece 25, are parts of obsolete Model A or Model B trolleys and are no longer manufactured. In some cases Models A and B can be repaired with Model C parts, but the factory should be consulted before ordering. Parts 61 and 63 for Model C trolley are similar to parts 11 and 13 for A and B trolleys, but are not interchangeable.

List No.	Used in Model	Capacity in Tons... Capacity in Pounds... Symbol for Size...	$\frac{1}{2}$ 1000 T-1	1 2000 T-2	$1\frac{1}{2}$ 3000 T-3	2 4000 T-4	3 6000 T-6	4 8000 T-8	5 10,000 T-10	6 12,000 T-12	8 16,000 T-16	10 20,000 T-20	15 30,000 T-30	20 40,000 T-40
51A	B, C	Side Plate, Plain, ea.	3.00	4.40	6.50	7.40	12.00	15.00	18.00	23.00	34.00	41.00	78.00	125.00
51B	B, C	Side Plate, Geared, ea.	3.50	5.50	8.00	10.00	15.00	18.50	22.00	28.00	42.00	54.00	92.00	140.00
202	C	Trolley Wheel, Plain, ea.	2.50	5.75	10.50	12.00	14.00	16.00	23.00	27.50	46.00	55.00	65.00	105.00
203	C	Trolley Wheel, Geared, ea.	3.00	6.75	12.00	15.00	18.00	20.00	28.00	32.00	58.00	68.00	84.00	120.00
304	C	Ball Bearing, ea.	1.60	1.60	2.00	2.00	3.50	5.00	6.00	7.50	8.50	10.00	14.50	23.00
305	C	Wheel Stud Collar	.35	.35	.60	.60	.85	1.20	1.50	1.75	7.50	9.00	10.00	12.00
307	C	Wheel Stud without Nut, ea.	1.40	1.40	2.10	2.10	2.50	3.40	4.20	5.00	9.00	12.00	16.50	27.50
309	C	Wheel Stud Nuts, ea.	.25	.25	.50	.60	.90	1.20	2.00	2.60	5.20	6.25	8.50	13.50
61A	B, C	Hook Bar and cotters	6.60	7.50	9.25	10.50	11.25	18.00	21.00	35.00	35.00	42.00	95.00	160.00
61X	C	Hook bar for extra wide flanges												
APPLY FOR PRICE GIVING ALL BEAM DIMENSIONS														
63	B, C	Connecting Stud & Nuts, ea.	2.00	2.00	2.10	2.10	2.50	2.70	3.80	4.50	5.00	5.50	7.50	12.50
68	B, C	Pinion & Shaft, complete, ea.	5.25	5.25	6.00	6.00	8.00	8.00	9.50	10.00	11.50	11.50	11.50	11.50
19	A, B, C	Hand Wheel	5.50	8.50	8.50	8.50	8.50	8.50	10.00	10.00	12.00	12.00	12.00	12.00
70	B, C	Hand Chain Guide	4.50	8.00	8.00					8.00				
75	B, C	Chain Guide Block							7.50	7.50	10.00	10.00	10.00	10.00
86	B, C	Hook Bar Washers only, each	.04	.04	.05	.05	.08	.08	.10	.10	.10	.10		
87	B, C	Connecting Stud Washers only, ea.	.03	.03	.03	.03	.03	.03	.05	.05	.05	.05		
43	A, B, C	Hand Chain, per ft.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	A, B, C	Feet for regular heights	17'-4"	18'-8"	19'-2"	21'-7"	24'-4"	26'-1"	31'-8"	32'-2"	33'-6"	34'-1"		

For parts for Timken Bearing trolleys, apply for prices.

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HOIST PRODUCTS

